JVC

SERVICE MANUAL

MODEL
3050EUO

B/W PORTABLE TELEVISION RECEIVER WITH FM/SW/MW RADIO

No. 3224
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Specifications

DIMENSIONS : Height 30.2cm Depth 10.8cm Width 25.1cm
Weight : Net 3.3kg ("D" size dry-cells 6pcs included)
Gross 4.5kg ("D" size dry-cells 6pcs and power adaptor included)

TV Section

Receiving Channels :	Channels 2 thru 12 VHF, 21 thru 69 UHF, CCIR standard (Sound IF 6.5MHz)
Antenna VHF :	Built-in monopole antenna or external antenna
UHF :	Built-in monopole antenna or external antenna
Antenna Input Impedance :	Balanced 300Ω (Both VHF and UHF)
	Unbalanced 75Ω (Built-in monopole antenna)
Power Input Rating :	AC 220V, 50Hz DC 9V (6 "D" size dry-cells) or optional rechargeable battery.
	DC 12V Car battery (with an auto plug)
Power Consumptions :	AC 10W on operating TV at volume max.
	DC 4.5W on operating TV at volume max.
Fuse Device :	1.25A and 1A
Speaker :	12cm Round type, voice coil impedance 8Ω
Audio Power Output (Max.) :	1.4W (Audio power output at 10% distortion is 1W)
Picture Tube :	85JB4 (3-inch diagonal)
Transistors :	27pcs (Included power adaptor)
Diodes :	38pcs (Included power adaptor)
IC :	1pc
Cabinet :	Plastics

Radio Section

Frequency Range :	MW 510 – 1600kHz, FM 88 – 108MHz
	SW 6 – 18MHz
Antenna FM :	Built-in monopole antenna or external antenna
MW/SW :	Ferrite core antenna
Power Consumptions :	AC 4.5W on operating radio at volume max.
	DC 2W on operating radio at volume max.
Transistors :	5pcs
Diodes :	9pcs
ICs :	2pcs

Controls

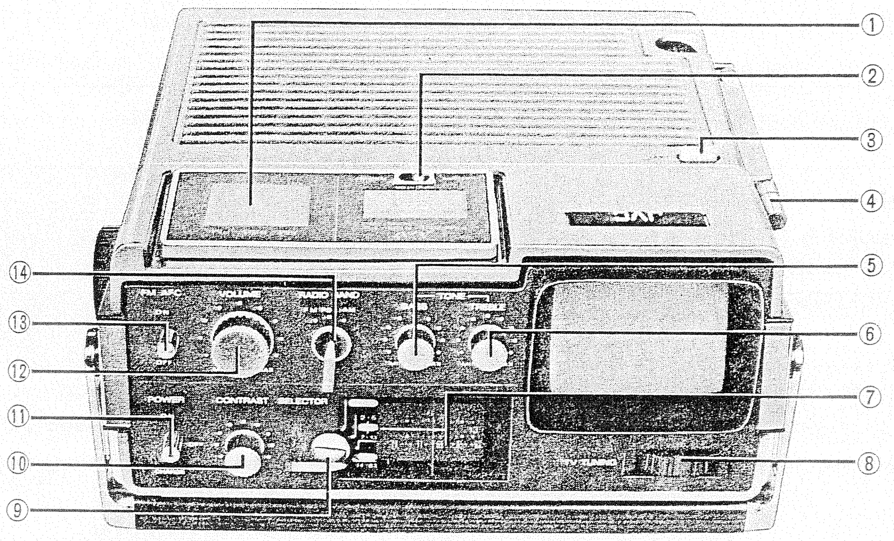


Fig. 1

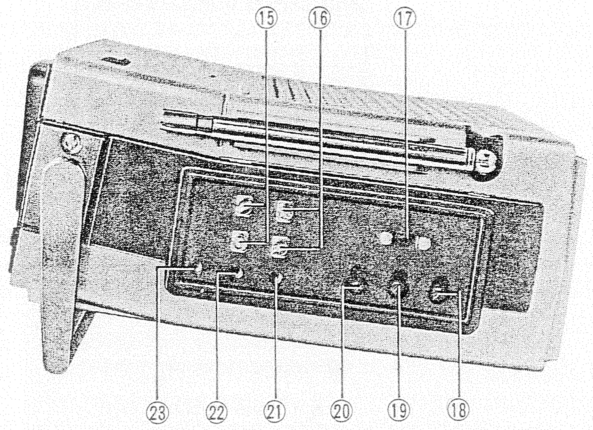


Fig. 2

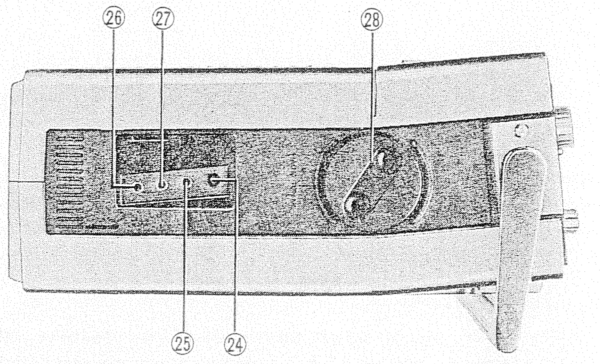


Fig. 3

1	Dial Scale (MW, SW and FM)	15	VHF/FM Antenna Terminal
2	Battery/Tuning Meter Switch	16	UHF Antenna Terminal
3	Lighting Button	17	Antenna Switch
4	Rod Antenna	18	Brightness
5	Bass	19	H.Hold
6	Treble	20	V.Hold
7	Dial Scale (VHF & UHF)	21	Height
8	TV Tuning	22	V.Lin.
9	Selector (TV/Radio)	23	AGC
10	Contrast	24	DC 9V Jack
11	Power Switch	25	Timer Jack
12	Volume	26	Earphone Jack
13	FM, AFC Switch	27	Recording Jack
14	Radio Band Selector	28	Radio Tuning

Servicing in the Field

Cleaning the Cabinet

Clean the external appearance of cabinet body when necessary, with a clean soft colth with mild soap. Don't use any solution which contains benzine or petroleum.

Raster Centering

The centering device is 2 magnetic rings located on yoke rear cover. By alternately rotating those 2 magnetic rings, the picture can be properly centered on the screen.

Deflection Yoke Adjustments

If the lines of the raster are not horizontal or corner shadows appear, loose the yoke clamp screw and rotate deflection yoke, push yoke snug up against bell of picture tube.

Vertical Height and Vertical Linearity Adjustments

When the upper or lower part of picture extends or shrinks, adjust the vertical height and vertical linearity controls alternately to fill the screen ¼ inch beyond the mask until the picture on test pattern is symmetrical from top to bottom.
The height control extends (or shrinks) mainly a lower part of raster, and the linearity control a upper part.

AGC Adjustment

Adjust the AGC control when picture is a very slight bend at it's top, or excessive snow.
AGC may be adjusted by tuning ·the control fully counter-clockwise when there is a very slight bend, and clockwise when snow.

In Servicing

* When taking short circuit of +B by mistake, the circuit components will be protected by cut-off operating of power transistor X501,502 or X503,504.
In this case, turn set off for over several seconds to restore the circuit components except for fuse blowing.

* In replacement of variable capacitance diodes (MA320G2V, D7,8,9 and 1S2208, D001,002,004), exchange surely together with D7,8,9 and D001,002, 004.
Because if the characteristics of each diode differ, it will be unable to be done correct tracking adjustments.

Disassembly Instructions

Handle Removal

1. Unfasten 4 screws fastening handle indicated in Fig. 4. (both side of handle)
2. Remove the handle.

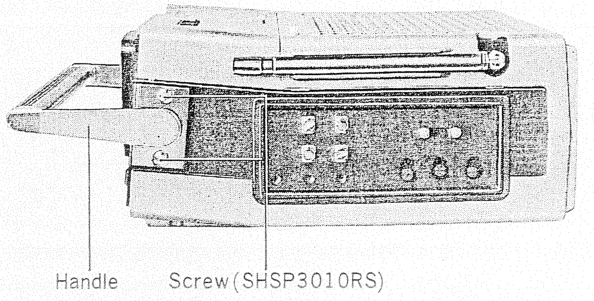


Fig. 4

Rear Cover Removal

1. Unfasten 6 screws fastening rear cover indicated in Fig. 5.
2. Remove the earphone pocket, cover, by pushing then and disconnect a connector connected to printed circuit board.
3. Remove the rear cover.

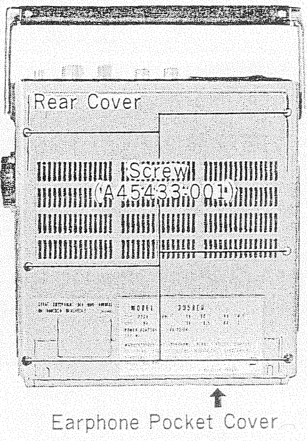


Fig. 5

Printed Circuit Board of TV Removal

1. Remove rear cover. Refer to "rear cover removal".
2. Pull out contrast and selector knobs.
3. Unfasten a blue color screw fastening printed circuit board indicated in Fig. 6, and disconnect the wires connected to UHF antenna terminals and the wire between printed circuit board of TV and radio (Fig. 6).
4. Pull out printed circuit board of TV (Fig. 7).

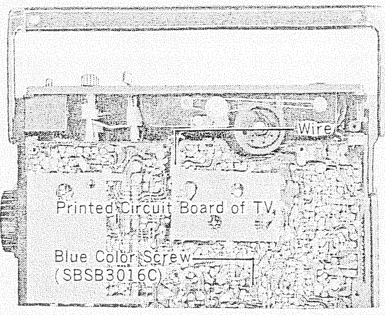


Fig. 6

Tuning/Battery Meter and Indicator Plate Removal

1. Remove the front grille. Refer to "front grille removal".
2. Remove the top panel. Refer to "top panel removal".
3. Unfasten 2 screws fastening indicator plate indicated in Fig. 16 and disconnect the wires connected to tuning/battery meter.
4. Remove the indicator plate and tuning/battery meter.

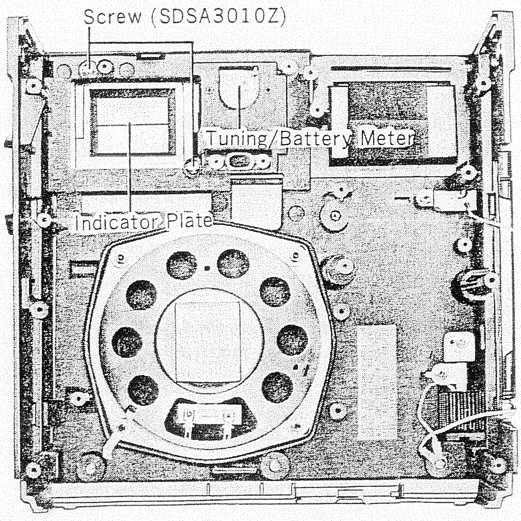


Fig. 16

Adaptor Case Removal (power adaptor)

1. Unfasten 2 screws fastening adaptor case indicated in Fig. 17. (both sides of adaptor case)
2. Remove the adaptor case.

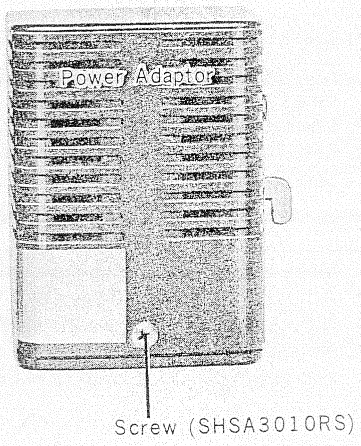


Fig. 17

Alignment Instructions for TV.

Pix IF Alignment

Test Equipments

Sweep Generator with Marker
Sweep frequency range 40~50MHz, marker generator frequency 40.4, 38.9, 36.8, 34.7, 33.4MHz.
Power Source
DC +0.7V (for AGC voltage)
Oscilloscope

Preparation Before Alignment

1. Set the "Selector" knob to "2-4 VHF".
2. Connect the capacitor and resistor (1000pF & 560Ω) in series between TP-6 and output of the sweep generator.
3. Connect the resistor (10kΩ) between TP-12 and input of the oscilloscope.
4. Supply +0.7V of AGC voltage to TP-14.

Alignment Procedure

1. Adjust the wave center to 36.8MHz and also for maximum gain with L101.
2. Adjust the T102 to obtain a response curve in Fig. 18.

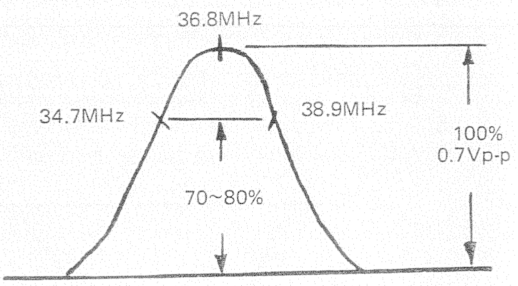


Fig. 18

Over-all Alignment

Preparation Before Alignment

1. Set the selector knob to "2-4 VHF".
2. Connect the capacitor and resistor (1000pF 560Ω) in series between TP-5 and output of the sweep generator.
3. Connect the resistor (10kΩ) between TP-12 and input of the oscilloscope.
4. Supply +0.7V of AGC voltage to TP-14.

Alignment Procedure

1. Adjust the T2 and T101 to obtain a response curve in Fig. 19.

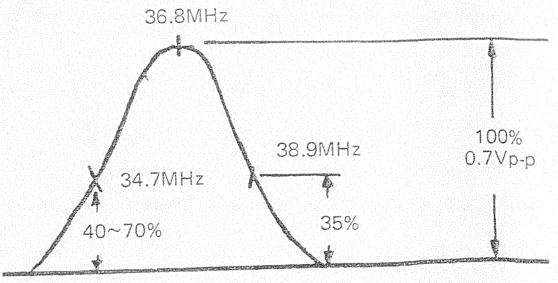


Fig. 19

VHF Tuner Alignment

Test Equipments

Sweep Generator with Marker
  Sweep frequency range 40~250MHz.
Power Source
  DC +0.7V (for AGC voltage)
V.T.V.M.
Oscilloscope

Preparation Before Alignment

1. The VHF tuner alignment must be done after Pix. IF was aligned.
2. Connect RF output of the sweep generator to TP-4.
3. Connect the resistor (10kΩ) between TP-12 and input of the oscilloscope.
4. Connect the V.T.V.M. to pin 2 of "TV tuning volume" (R32).
5. Supply +0.7V of AGC voltage to TP-14.

Alignment Procedure

1. Set the "Selector" knob to "2-4 VHF".
2. Adjust for minimum gain (38.9MHz) with L1.
3. Adjust "TV tuning volume" (R32) so that the V.T.V.M. may indicate +5.15V.
4. Set the sweep generator to 3CH (57MHz).
5. Adjust the wave center to 57MHz with L9 (Fig. 20).
6. Adjust for maximum gain with L3 and L8.

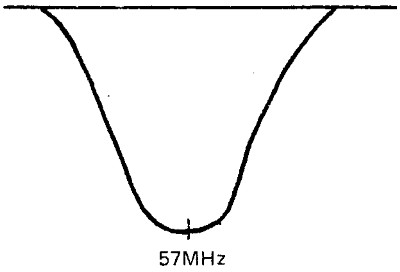


Fig. 20

7. Set the "Selector" knob to "5-12 VHF".
8. Adjust "TV tuning volume" (R32) so that the V.T.V.M. may indicate +7.6V.
9. Adjust the wave center to 205MHz with L11 (Fig. 21).
10. Adjust for maximum gain with L3 and L5.

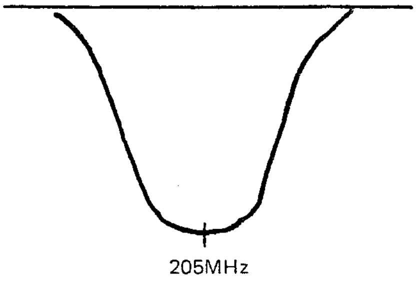


Fig. 21

UHF Tuner Alignment

Test Equipments

Sweep Generator with Marker
  Sweep frequency range 450~900MHz.
Oscilloscope

Preparation Before Alignment

1. The UHF tuner alignment must be done after Pix. IF and VHF tuner were aligned.
2. Set the "Selector" knob to "UHF".
3. Connect RF output of the sweep generator to TP-3.
4. Connect the resistor (10kΩ) between TP-12 and input of the oscilloscope.
5. Supply +0.7V of AGC voltage to TP-14.

Alignment Procedure

1. Set the sweep generator to 21CH (470MHz).
2. Adjust the wave center to 471.25MHz with "TV tuning volume" (R32) (Fig. 22).
3. Adjust for maximum gain with L001 and L007.
4. Set the sweep generator to 69CH (855.25MHz).
5. Adjust the wave center to 855.25MHz with tuning volume (R32) (Fig. 23).
6. Adjust for maximum gain with C003.

* Repeat the steps 1~6.

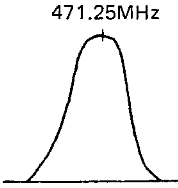


Fig. 22

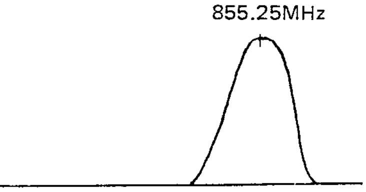


Fig. 23

Sound IF Alignment

Test Equipments

Sweep Generator with Marker
  Sweep frequency range 6.5MHz ±500kHz and marker generator frequency 6.5MHz.
Oscilloscope

Preparation Before Alignment

1. Connect the capacitor and resistor (1000pF & 560Ω) in series between TP-12 and output of the sweep generator.
2. Connect input of the oscilloscope to TP-21.
3. Set the "TV tuning volume" (R32) to any non-signal position.

Alignment Procedure

1. Make strongly output of the sweep generator.
2. Adjust the wave center to 6.5MHz with T202.
3. Make weakly output of the sweep generator.
4. Adjust the wave center to 6.5MHz and also for maximum gain with T201, T203 (Fig. 24).

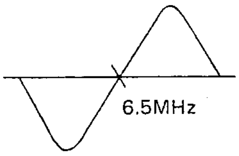


Fig. 24

Alignment Instructions for Radio

MW & SW IF Alignments

Preparation Before Alignment

1. Set the "Selector" knob to "radio" and the "radio band" knob to "MW".
2. Set the volume control to minimum and the variable capacitor near the minimum capacity where no signal comes in.
3. Connect output of the sweep generator (with marker 455kHz) to TP-801.
4. Connect input of the oscilloscope to TP-802.

Alignment Procedure

1. Adjust the wave center to 455kHz and also for symmetrize "A" and "B" with T805,806,808.(Fig. 25)
2. Adjust for maximum gain (455kHz) with T805,806,808.
3. Make weakly output of the sweep generator.
4. Adjust for maximum gain with T832.

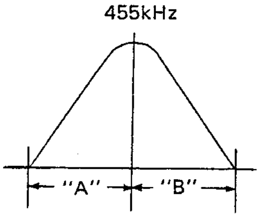


Fig. 25

MW & SW RF Alignment

Preparation Before Alignment

1. Set the "Selector" knob to "radio" and the "radio band" knob to "MW" or "SW" (See chart 1).
2. Connect output of the standard signal generator (AM modulation 400Hz, 30%) to loop antenna.
3. Connect the V.T.V.M. to terminal of speaker.

Alignment Procedure

Step	Band	Frequency of marker	Set the variable capacitor to	Adjust	V.T.V.M. Reading
1	MW	500kHz	Maximum	T804	Maximum
2		1650kHz	Minimum	C835	
3		Repeat the steps 1~2.			
4		620kHz	620kHz, Tune in	T802 (MW)	Maximum
5		1400kHz	1400kHz, Tune in	C829	
6		Repeat the steps 4~5.			
7	SW	5.8MHz	Maximum	T803	Maximum
8		18.6MHz	Minimum	C838	
9		Repeat the steps 7~8.			
10		6MHz	6MHz, Tune in	T802 (SW)	Maximum
11		18MHz	18MHz, Tune in	C828	
12		Repeat the steps 10~11.			

Chart 1

Note: Keep the standard signal generator output level always on about 50mW (0.63V/8Ω) when alignment.

FM IF Alignment

Preparation Before Alignment

1. Set the "Selector" knob to "radio" and the "radio band" knob to "FM".
2. Set the variable capacitor to minimum capacity.
3. Connect the capacitor and resistor (33pF & 33kΩ) in series between TP-1 and output of the sweep generator (10.7MHz).
4. Connect input of the oscilloscope to TP-802.

Alignment Procedure

1. Adjust the T801,807,809,810, of FM IFT so that the response of the "S" curve may become maximum and symmetric. (Fig. 26)

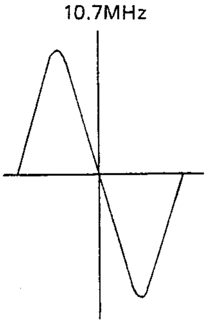


Fig. 26

FM RF Alignment

Preparation Before Alignment

1. Set the "Selector" knob to "radio" and the "radio band" knob to "FM".
2. Unscrew a screw fastening wire of rod antenna.
   Connect output of the standard signal generator (FM modulation 400Hz, 30%) to TP-4.
3. Connect the V.T.V.M. to terminal of speaker.

Alignment Procedure

Step	Frequency of S.S.G.	Adjust	Set the variable capacitor to	V.T.V.M. Reading
1	87.5MHz	L805	Maximum	Maximum
2	109MHz	C821	Minimum	Maximum
	Repeat the steps 1~2.			
3	90MHz	L804	90MHz, Tune in	Maximum
4	106MHz	C812	106MHz, Tune in	Maximum
	Repeat the steps 3~4.			

Chart 2

Note: Keep the standard signal generator output level always on about 50mW (0.63V/8Ω) when alignment.

Parts Arrangement for Alignment

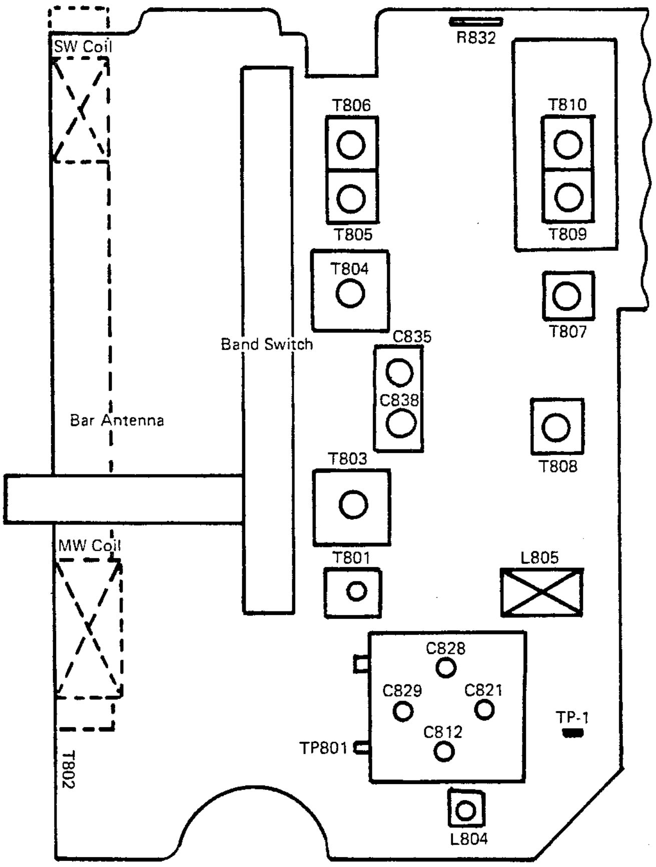

SW Coil
R832
T806
T810
T805
T809
T804
T807
Band Switch
C835
C838
Bar Antenna
T803
T808
MW Coil
T801
L805
C828
C829
C821
C812
TP-1
TP801
T802
L804

Fig. 27

Power Adaptor (Model AA-23JEU) Alignment

Preparation Before Alignment

1. Remove adaptor case. Refer to "adaptor case removal" (Fig. 17).
2. Plug cord of power adaptor to "DC 9V" terminal of set and connect AC power cord to "AC 220V" terminal of power adaptor.
3. While receiving broadcast of TV, set the "volume" knob to minimum.
4. Connect the DC voltmeter (10 volts) between collector of X501 and earth.

Alignment

1. Adjust R508 so that the DC voltmeter may indicate +9.1 volts.

B. Voltage Alignment

Preparation Before Alignment

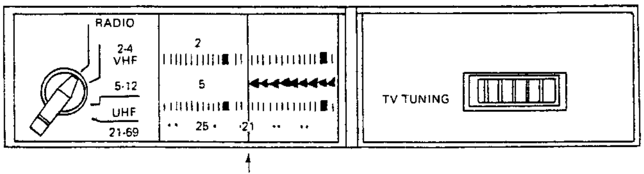
1. The B. voltage alignment must be done after power adaptor (model AA-23JEU) was aligned.
2. Plug cord of power adaptor to "DC 9V" terminal of set and connect AC power cord to "AC 220V" terminal of power adaptor.
3. While receiving broadcast of TV, set the "volume" knob to minimum.
4. Connect the DC voltmeter (10 volts) between TP-91 and earth.

Alignment

1. Adjust R518 so that the DC voltmeter may indicate +6.0 volts.

Dial Tracking Alignment

1. Set the selector knob to "VHF 2-4" position.
2. By turning TV tuning knob, fit figure "4" to be printed on indicator film to indicator line of channels (Fig. 28) and receive 4CH broadcasting by adjusting sub-volume R31.
3. In the same way, adjust "VHF 5-12" and "UHF" bands according to following chart 3.


RADIO
2-4
VHF
5-12
UHF
21-69
2
5
25
21
TV TUNING

Indicator line of channels on indicator glass.

Fig. 28

Selector Knob Setting	Channel Number	Sub Volume
VHF 2-4	4	R31
VHF 5-12	12	R29
	5	R27
UHF	69	R28
	21	R26

Chart 3

How to Fit Dial Cord for TV

1. Unfasten 2 screws fastening TV tuning base ass'y indicated in Fig. 8 and remove it.
2. Set tuning resistor fully counter-clockwise previously and fit dial cord according to the arrow marks indicated in Fig. 29. (length of dial cord is 63cm)

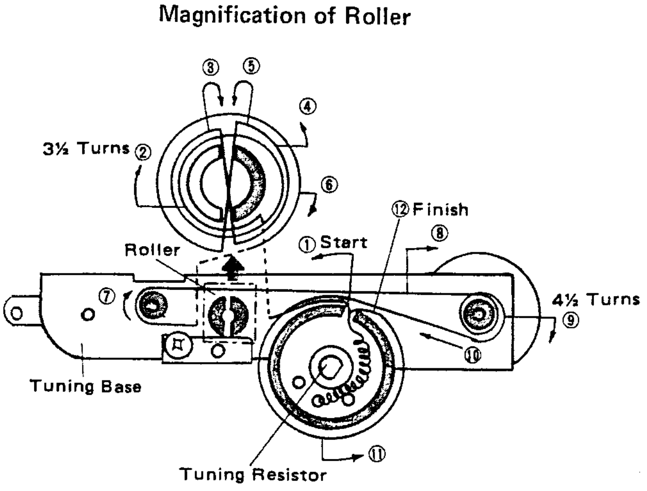

Magnification of Roller
③
⑤
④
3½ Turns ②
⑥
⑫Finish
Roller
①Start
⑧
4½ Turns
⑦
⑨
⑩
Tuning Base
⑪
Tuning Resistor

Fig. 29

How to Set dial Indicator Film for TV

1. Unfasten 2 screws fastening TV tuning base ass'y indicated in Fig. 8 and remove it.
2. Turn drum "A" indicated in Fig. 30 10 times clockwise previously and stick left end of dial indicator film to drum "A".
   Then the film will be wound up to drum "A".
3. Stick other end of the film to drum "B".
4. Unfasten a setting screw fastening drum shaft of drum "B" and pull up drum shaft a little from drum "B" (Fig. 30).
5. By tuning drum "B", set the figure of dial indicator to be receiving the broadcasting to checking lines marked on left side of tuning base ass'y and fasten a setting screw unfasten previously.

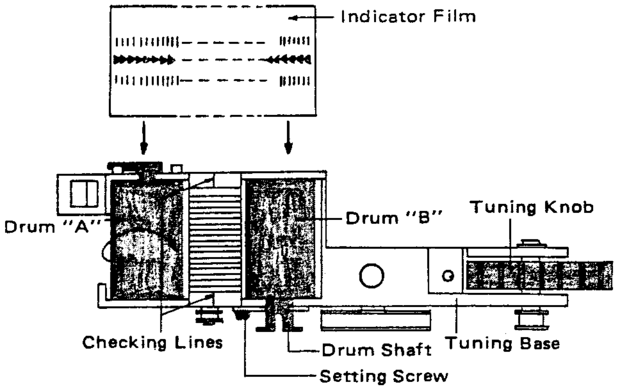

Indicator Film
Drum "A"
Drum "B"
Tuning Knob
Checking Lines
Drum Shaft
Tuning Base
Setting Screw

Fig. 30

How to Fit Dial Cord for Radio

1. Remove printed circuit board of radio. Refer to "printed circuit board of radio removal".
2. Set the variable capacitor to minimum capacity previously and fit dial cord according to the arrow marks indicated in Fig. 31. (length of dial cord is 900m/m)

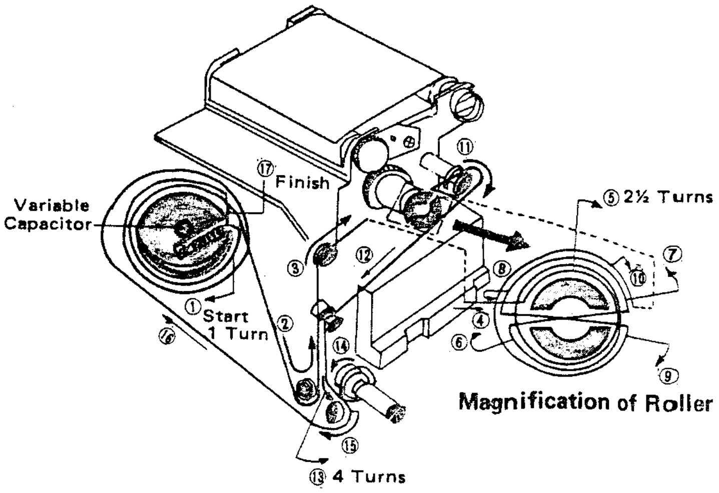

⑪
⑰Finish
⑤2½ Turns
Variable Capacitor
⑦
⑧
⑩
③
⑫
①Start
1 Turn
②
⑯
⑭
④
⑥
⑨
Magnification of Roller
⑮
⑬ 4 Turns

Fig. 31

How to Set Indicator Film for Radio

1. Remove printed circuit board of radio. Refer to "printed circuit board of radio removal".
2. Set the variable capacitor to minimum capacity.
3. Remove the drum "A" to rightward (Fig. 32).
4. Stick right end of dial indicator film to drum "A", wind up the film to drum "A" and insert the spring into drum "A" (Fig. 33).
5. Stick other end of the film to drum "B".

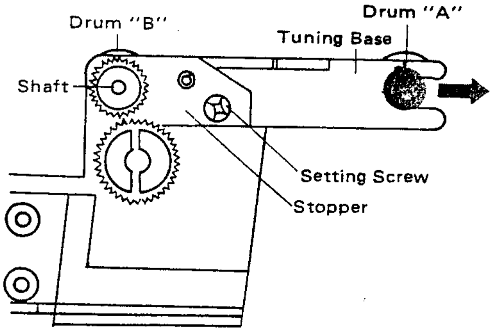

Drum "B"
Drum "A"
Tuning Base
Shaft
Setting Screw
Stopper

Fig. 32

6. Set the drum "A" to tuning base (Fig. 33).

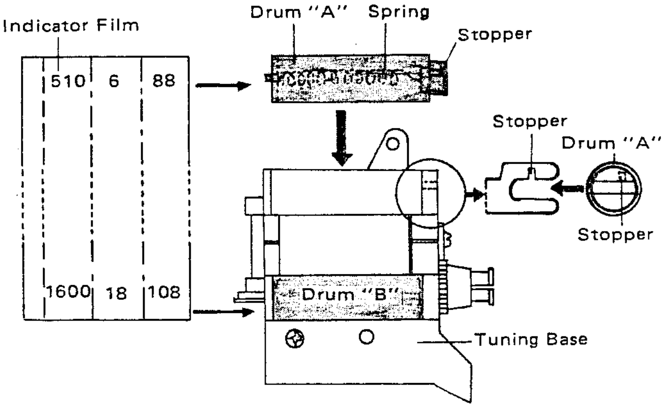

Indicator Film
510
6
88
1600
18
108
Drum "A"
Spring
Stopper
Stopper
Drum "A"
Stopper
Drum "B"
Tuning Base

Fig. 33

7. Unfasten a setting screw, remove stopper (Fig. 32) and pulling shaft a little from drum "B" (Fig. 34).
8. By tuning the shaft, set the figure of dial indicator to checking lines marked on center of tuning base (Fig. 34) and fasten a setting screw, stopper unfasten previously (Fig. 32).

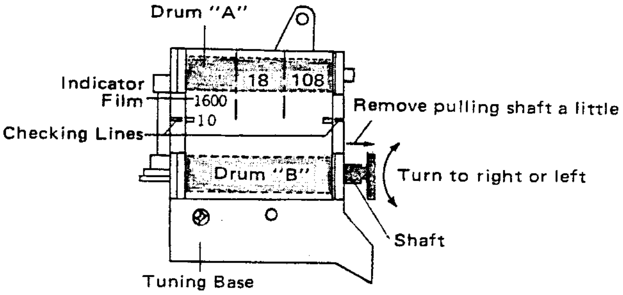

Drum "A"
Indicator Film
Checking Lines
18
108
1600
10
Remove pulling shaft a little
Drum "B"
Turn to right or left
Shaft
Tuning Base

Fig. 34

Mechanical Parts Diagram

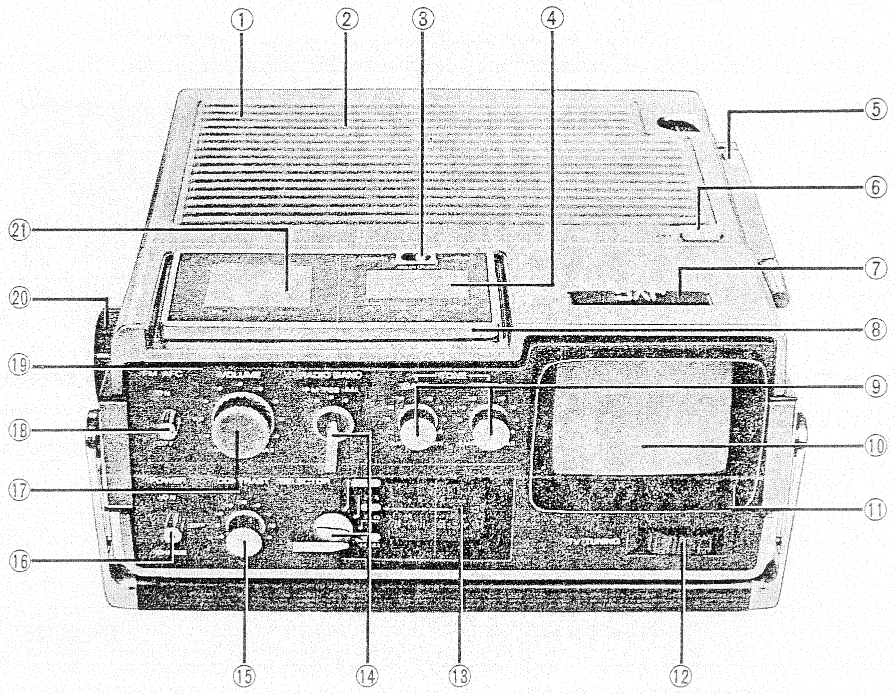


Fig. 35

No.	Parts Name	Parts No.	Q'ty
1	Front Grille	A10311-002	1
2	Salan Net	A45434-001	1
3	Slide Switch (S4)	QSS1201-011	1
4	Meter (Batt./Tuning)	A45386-00A	1
	Stick Sheet	A41545-076	1
5	Rod Antenna	QZR2110-001	1
6	Lamp Knob	A45365-001	1
7	Mark	QXM2241-001	1
8	Ornament Panel	A20822-001	1
9	Control Knob	A45361-001	2
10	Protector Glass	A31854-001	1
11	Shadow Mask	A31862-001	1
12	Tuning Knob (TV)	A45346-001	1
13	Indicator Plate (TV)	A45372-003	1
14	Selector Knob	A45362-001	2
15	Control Knob	A45361-001	1
16	Knob (Power)	V43970-002	1
17	Volume Knob	A45360-001	1
18	Knob (AFC)	V43970-001	1
19	Top Panel	A10313-00B	1
20	Tuning Knob (Radio)	A31859-001	1
21	Indicator Plate (Radio)	A31873-003	1

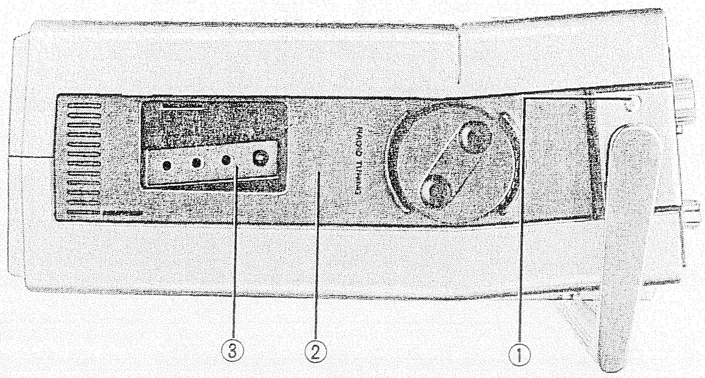

RADIO TUNING
③
②
①

Fig. 36

No.	Parts Name	Parts No.	Q'ty
1	Screw (both sides)	SHSP3010RS	4
2	Chassis Base	A10310-00B	1
3	Jack Board Ass'y (J1~4)	A45408-00A	1

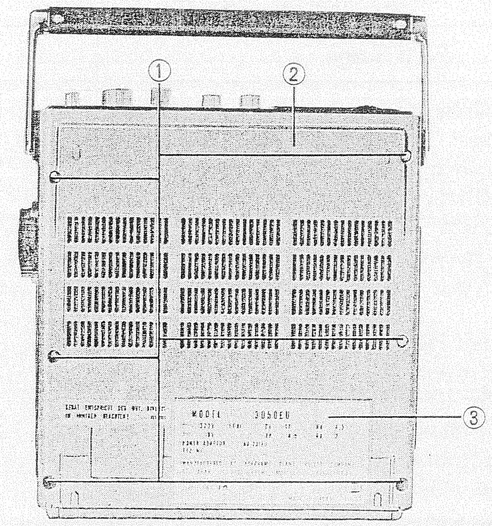

①
②
MODEL 3050EU
③

Fig. 37

No.	Parts Name	Parts No.	Q'ty
1	Tap Screw	A45433-001	6
2	Rear Cover	A10312-002	1
3	Rating Label	A31689-049	1

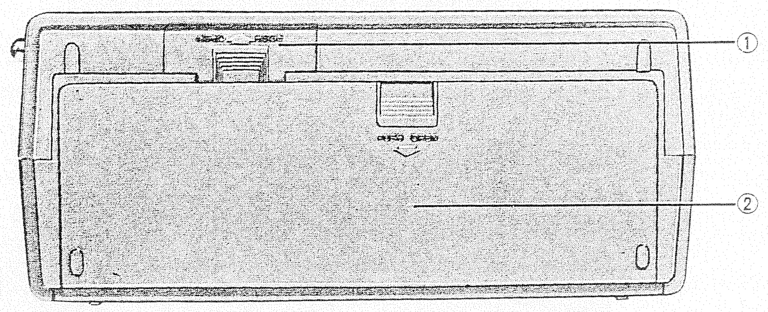


Fig. 38

No.	Parts Name	Parts No.	Q'ty
1	Earphone Cover	A31855-001	1
2	Battery Cover	A20819-002	1

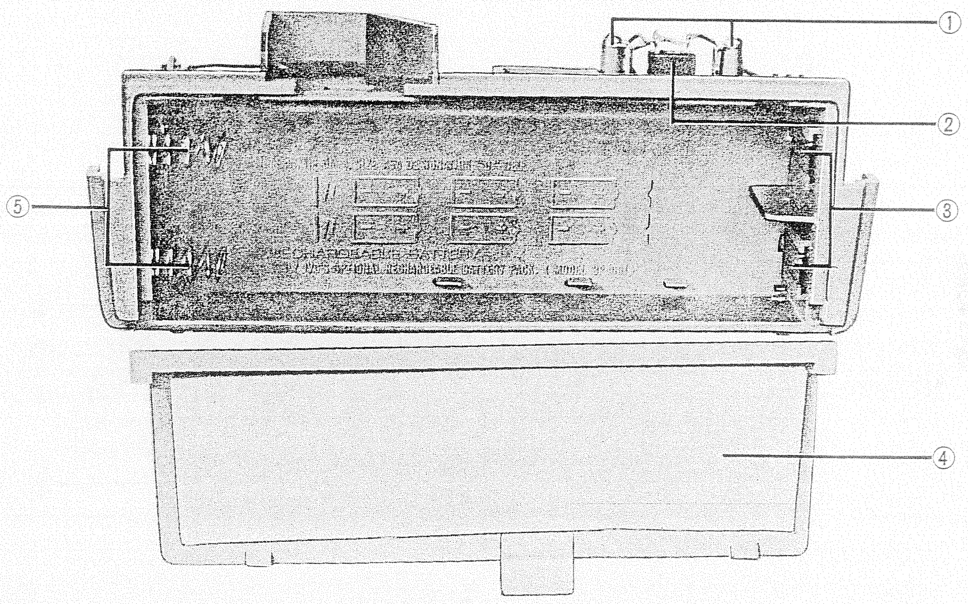


Fig. 39

No.	Parts Name	Parts No.	Q'ty
1	Tap Screw	SBSB3012Z	2
2	Socket Ass'y (J13)	QMC0233-101	1
3	Battery Plate	A45375-001	2
4	Cushion	A41455-042	1
5	Contact Spring	A45377-001	2

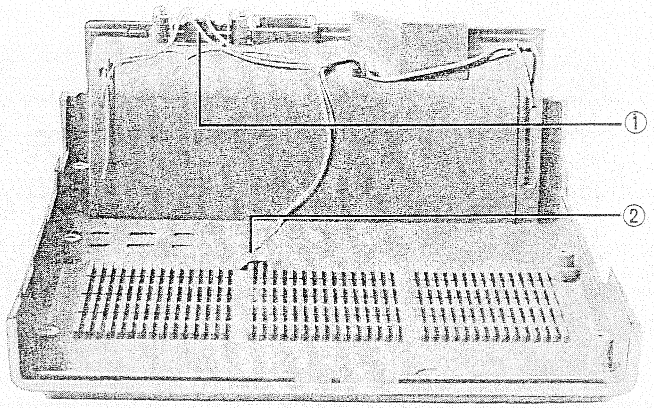


Fig. 40

No.	Parts Name	Parts No.	Q'ty
1	Jack Holder	A45428-001	1
2	Socket Ass'y (J8)	QMC0357-001	1

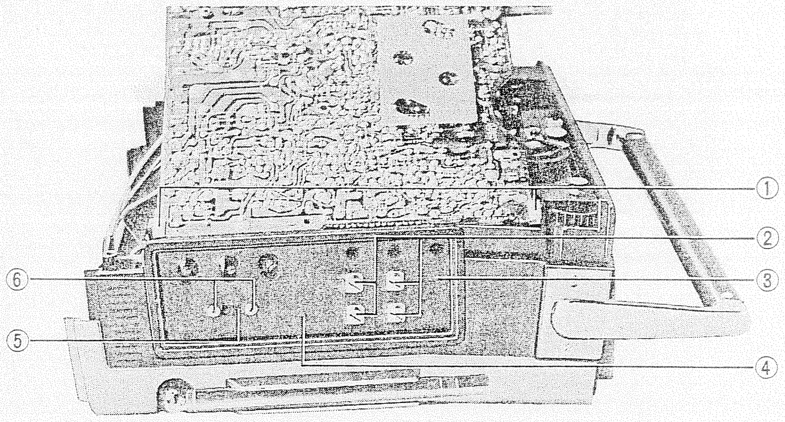


Fig. 41

No.	Parts Name	Parts No.	Q'ty
1	Hinge Insulator	A45368-001	2
2	Terminal	Q30150-3S	4
	Screw	A45435-001	4
3	Terminal Cap	A45487-001	1
4	Terminal Board	A20821-002	1
5	Slide Switch (Ant. S6)	QSS2201-031	1
6	Screw	SDSP2606N	2

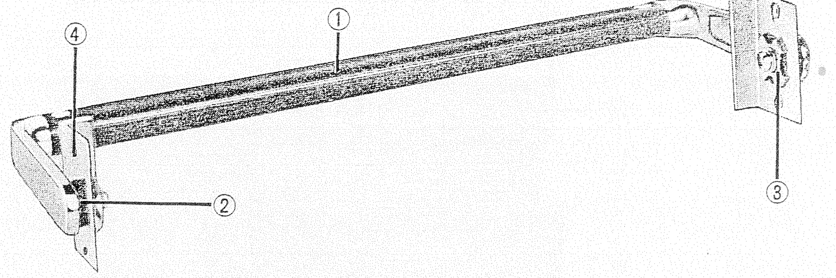


Fig. 42

No.	Parts Name	Parts No.	Q'ty
1	Handle Ass'y	A31860-00A	1
2	Handle Insulator	A45367-001	2
3	Handle Spring	A45371-001	2
	Washer	WNS4000Z	2
	Ass'y Screw	LPSP4008ZS	2
4	Handle Plate	A45370-001	2

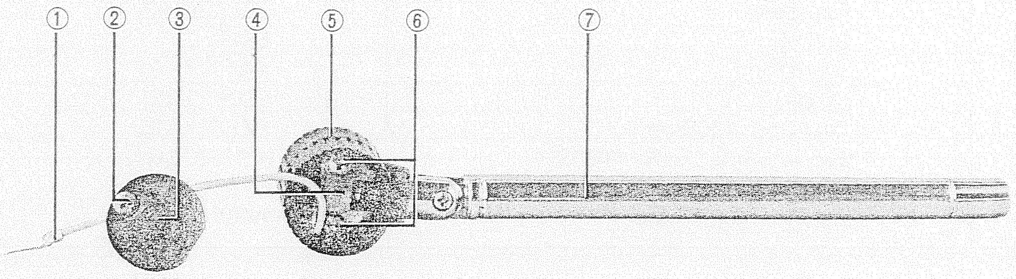


Fig. 43

No.	Parts Name	Parts No.	Q'ty
1	Lug	50388	1
2	Tap Screw	SDSA2612Z	1
3	Rotor Cap	A45508-001	1
4	Spring	A45507-001	1
5	Rotor Ass'y	A31892-00A	1
6	Tap Screw	SDSA3012Z	2
7	Rod Antenna	QZR2110-001	1

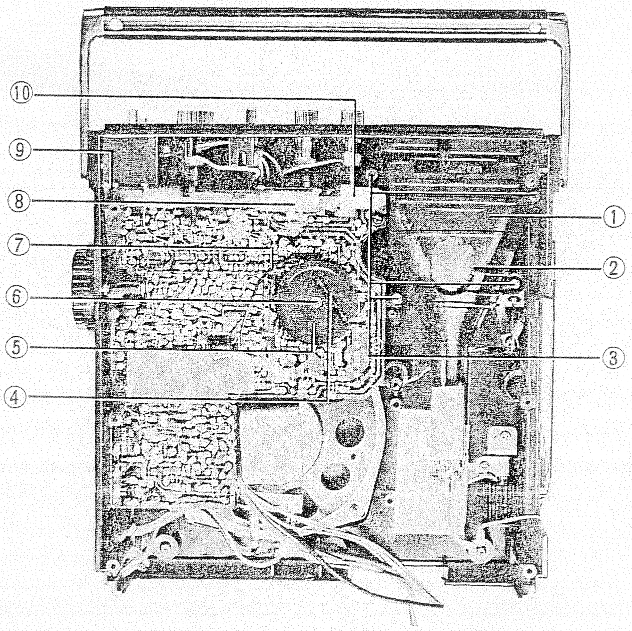


Fig. 44

No.	Parts .Name	Parts No.	Q'ty
1	CRT Holder	A20820-001	1
2	Earth Plate	A45442-001	1
3	Tap Screw	SBSB3016Z	4
4	Spring	53498-3	1
5	Dial Drum	A45003-001	1
6	Screw	SSBP2608N	1
7	Dial Cord (900mm)	A45316-001	1
8	Bar Antenna Ass'y (T802)	A31887-00A	1
9	Bar Antenna Clamp	A45409-001	1
10	Bar Antenna Holder	A45410-001	1

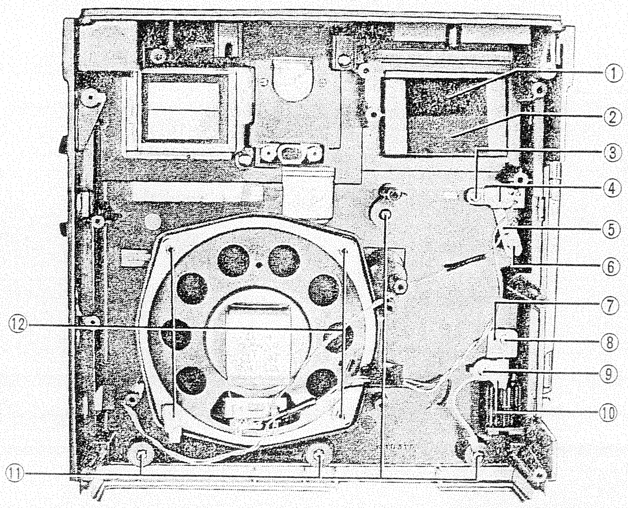


Fig. 45

No.	Parts Name	Parts No.	Q'ty
1	Stick Sheet	A41545-074	1
2	Stick Sheet	A41545-075	1
3	Tap Screw	SDSA3010Z	1
4	Lamp Bracket (S8)	A45369-001	1
5	Lamp Lever (S8)	A45374-001	1
6	Tap Screw	SDSA3010Z	1
7	Rotor Holder	A45445-001	1
8	Tap Screw	SDSA3012Z	1
9	Tap Screw	SDSA3012Z	1
10	Rotor Spring	A45444-001	1
11	Tap Screw	SBSB3014Z	4
12	Washer	WNS4000Z	1
	Flange Nut	NFZ3000ZS	4
	Wire Clamp	55234-5	1

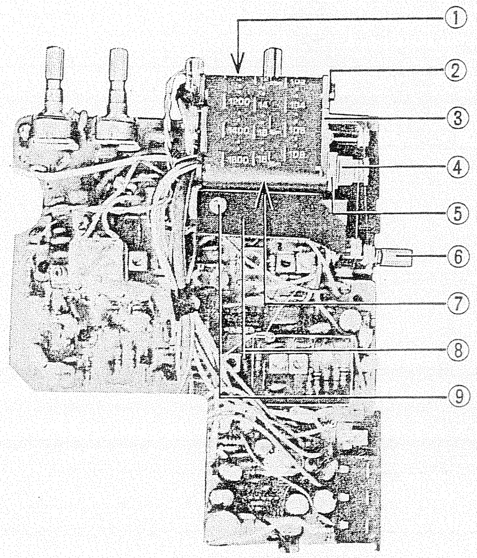


Fig. 46

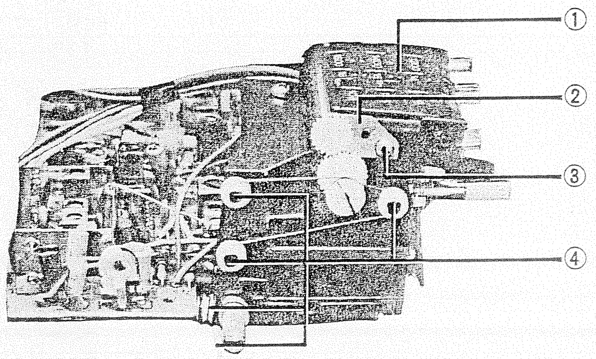


Fig. 47

(Refer to Fig. 46)

No.	Parts Name	Parts No.	Q'ty
1	Drum (A)	V44057-002	1
	Spring (Inside of drum (A))	A45470-001	1
2	Pin	V44059-001	1
3	Lens	A45358-001	1
4	Gear Ass'y	A45356-00A	1
	"E" Washer	REE2000	1
5	Gear	A45355-001	1
6	Tuning Shaft	A45357-001	1
	"E" Washer	REE4000	1
7	Drum (B)	V44060-002	1
8	Tuning Base	A20824-001	1
9	Tap Screw	SBSB3008Z	1

(Refer to Fig. 47)

No.	Parts Name	Parts No.	Q'ty
1	Indicator Film	A31858-003	1
2	Stopper	V44092-001	1
3	Tap Screw	SBSB2606Z	1
4	Roller	V40409-3	5
	"S." Washer	V42562-1	5

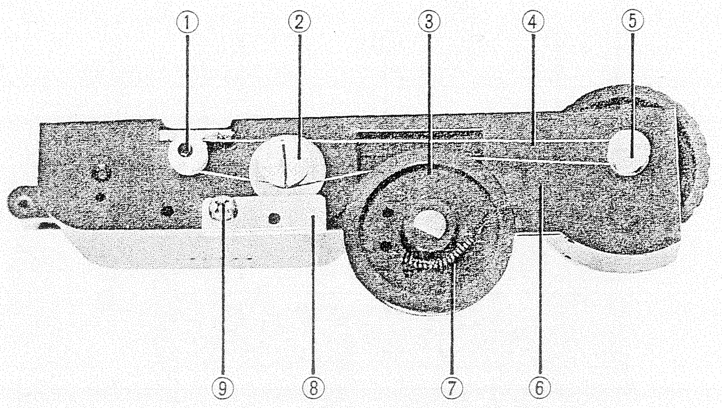


Fig. 48

No.	Parts Name	Parts No.	Q'ty
1	Roller	V40409-3	1
	"S" Washer	V42562-1	1
2	Drum Shaft	A45348-001	1
3	Dial Drum	A31856-001	1
4	Dial Cord (63cm)	A45316-001	1
5	Tuning Shaft	A45347-001	1
6	Tuning Base	A20823-001	1
7	Spring	53498-3	1
8	Shaft Holder	A45350-001	1
9	Tap Screw	SDSA3010Z	1

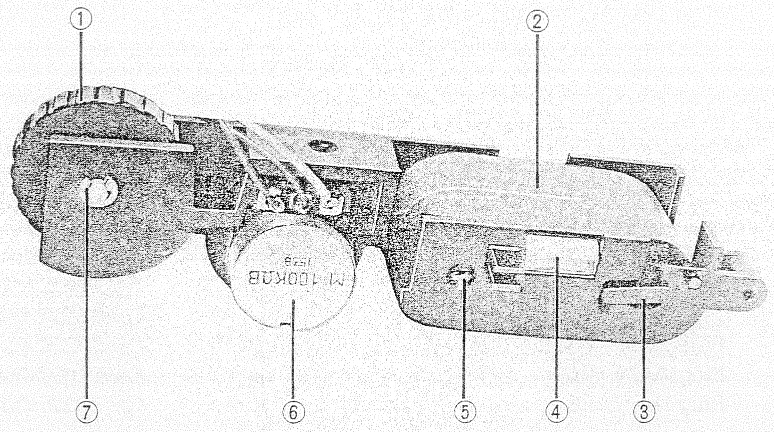


Fig. 49

No.	Parts Name	Parts No.	Q'ty
1	Tuning Knob	A45346-001	1
2	Indicator Film	A31857-301	1
3	Film Drum	A45351-001	1
	Spring Holder } Inside of film drum	A45352-001	1
	Spring	A45353-001	1
4	Lens	A45354-001	1
5	Film Drum	A45349-001	1
6	Variable Resistor (R32)	QVA9A6B-015	1
7	"E" Washer	REE3000	1

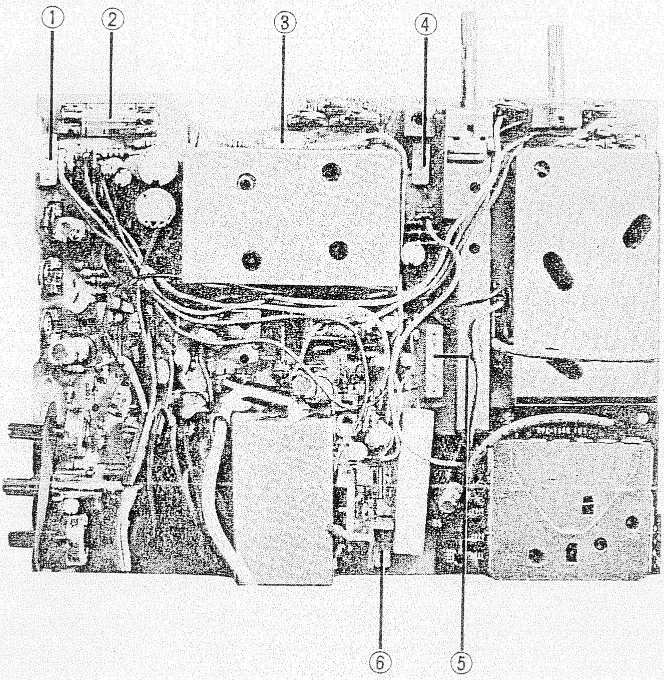


Fig. 50

No.	Parts Name	Parts No.	Q'ty
1	Plug Ass'y P7	QMC0427-001	1
2	Fuse (250V, 1A)	QMF51A2-1R0	1
3	Plug Ass'y P9	QMC0327-001	1
4	Plug Ass'y P5	QMC0327-001	1
5	Plug Ass'y P6	QMC0627-001	1
6	Plug Ass'y P8	QMC0327-001	1

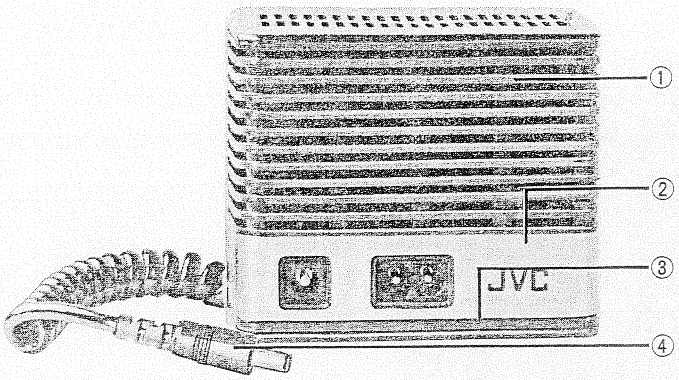


Fig. 51

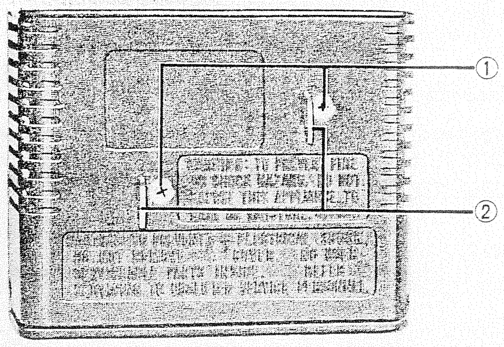


Fig. 52

(Refer to Fig. 51)

No.	Parts Name	Parts No.	Q'ty
1	Adaptor Case	A20818-001	1
2	Plate	A31853-003	1
3	Adaptor Base	A20817-001	1
4	Plug & Lead Ass'y (P1)	QMA0911-102	1

(Refer to Fig. 52)

No.	Parts Name	Parts No.	Q'ty
1	Screw	SSSP3005RS	2
2	Holder	A45337-001	2

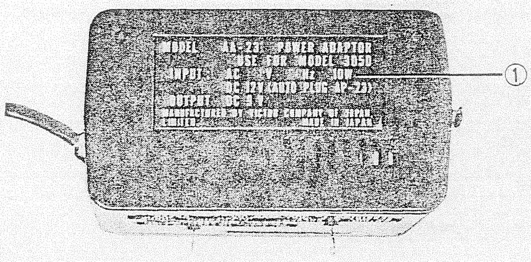


Fig. 53

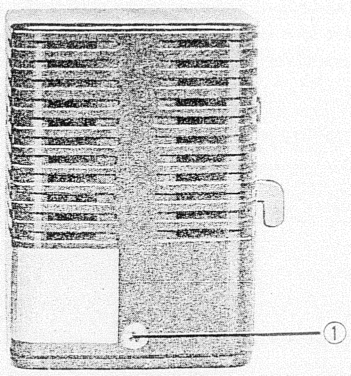


Fig. 54

(Refer to Fig. 53)

No.	Parts Name	Parts No.	Q'ty
1	Label (Rating)	A31694-037	1

(Refer to Fig. 54)

No.	Parts Name	Parts No.	Q'ty
1	Screw	SHSA3010RS	2
	Tapping Plate	A43503-2S	2

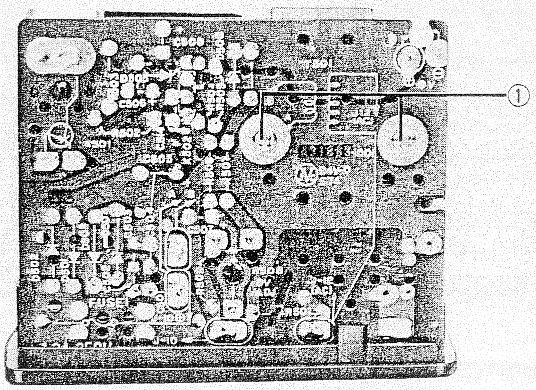


Fig. 55

No.	Parts Name	Parts No.	Q'ty
1	Ass'y Screw Washer	SPSP3006ZS Q03091-105	2 2

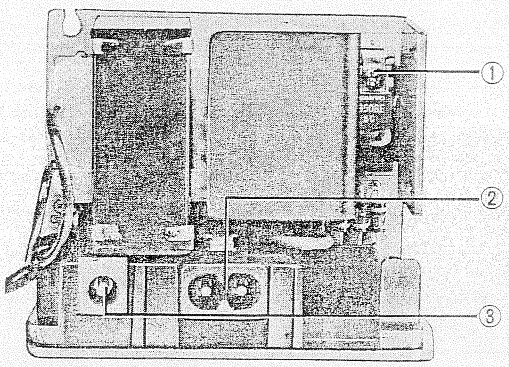


Fig. 56

No.	Parts Name	Parts No.	Q'ty
1	Tap Screw	SBSB3006Z	1
2	AC Socket Ass'y (J12,S9)	QMC0263-001	1
3	Ext. Battery Jack Ass'y (J10)	QMA1221-001	1

Block Diagram

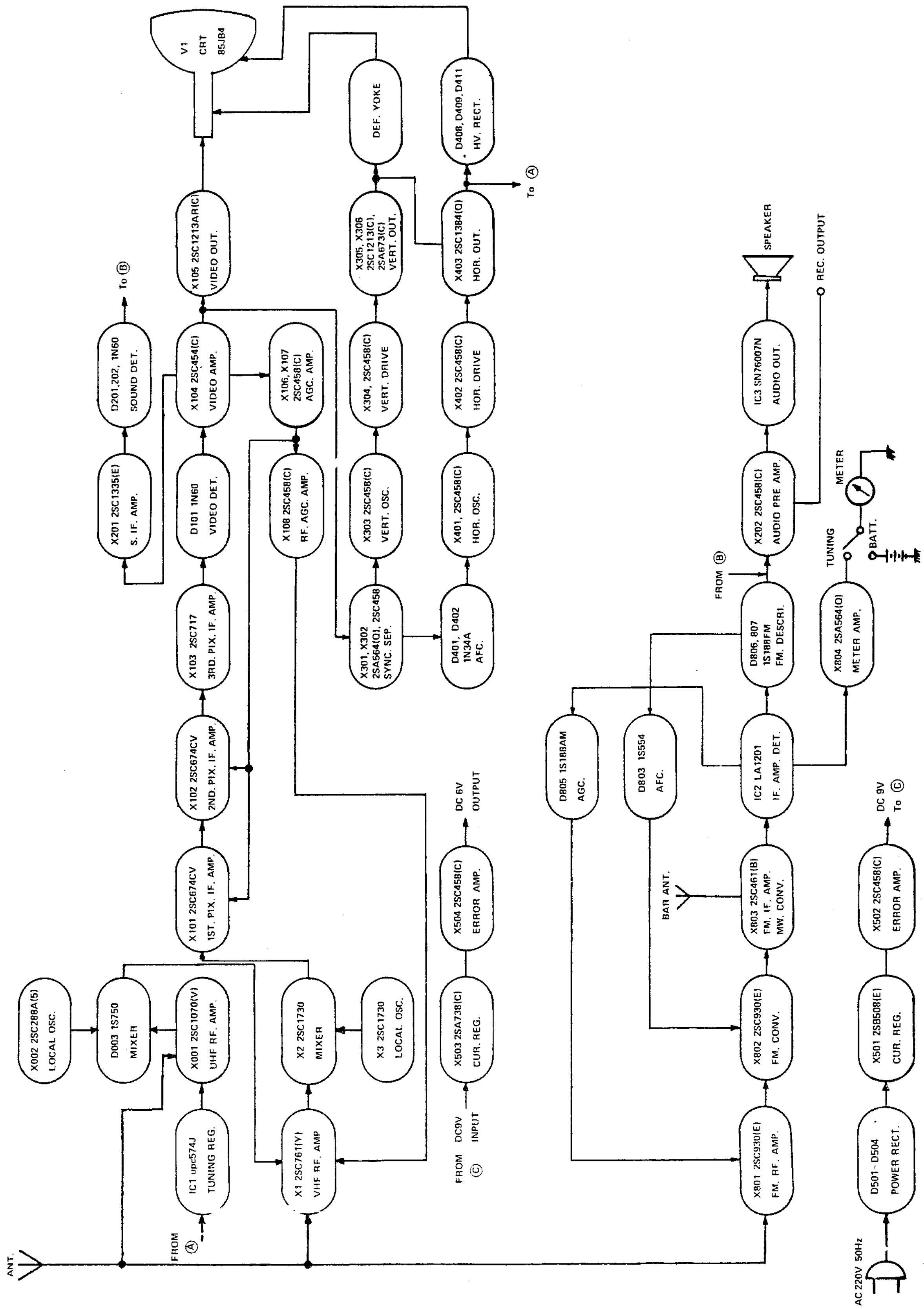

V1 CRT 85JB4
DEF. YOKE
D408, D409, D411 HV. RECT.
To Ⓐ
X105 2SC1213AR(C) VIDEO OUT.
X305, X306 2SC1213(C), 2SA673(C) VERT. OUT.
X403 2SC1384(Q) HOR. OUT.
To Ⓑ
D201,202, 1N60 SOUND DET.
X104 2SC454(C) VIDEO AMP.
X106, X107 2SC458(C) AGC. AMP.
X304, 2SC458(C) VERT. DRIVE
X402 2SC458(C) HOR. DRIVE
SPEAKER
REC. OUTPUT
IC3 SN76007N AUDIO OUT.
X201 2SC1335(E) S. IF. AMP.
D101 1N60 VIDEO DET.
X108 2SC458(C) RF. AGC. AMP.
X303 2SC458(C) VERT. OSC.
X401, 2SC458(C) HOR. OSC.
X202 2SC458(C) AUDIO PRE AMP.
METER
TUNING
BATT.
FROM Ⓑ
X103 2SC717 3RD. PIX. IF. AMP.
X301, X302 2SA564(Q), 2SC458 SYNC. SEP.
D401, D402 1N34A AFC.
D806, 807 1S188FM FM. DESCRI.
X804 2SA564(Q) METER AMP.
X102 2SC674CV 2ND. PIX. IF. AMP.
D805 1S188AM AGC.
D803 1S554 AFC.
IC2 LA1201 IF. AMP. DET.
DC 6V OUTPUT
DC 9V To Ⓒ
X101 2SC674CV 1ST. PIX. IF. AMP.
X504 2SC458(C) ERROR AMP.
BAR ANT.
X803 2SC461(B) FM. IF. AMP. MW. CONV.
X502 2SC458(C) ERROR AMP.
X002 2SC288A(S) LOCAL OSC.
D003 1S750 MIXER
X001 2SC1070(V) UHF RF. AMP.
X2 2SC1730 MIXER
X3 2SC1730 LOCAL OSC.
X503 2SA738(C) CUR. REG.
X802 2SC930(E) FM. CONV.
X501 2SB508(E) CUR. REG.
IC1 upc574J TUNING REG.
X1 2SC761(Y) VHF RF. AMP
FROM Ⓒ DC9V INPUT
X801 2SC930(E) FM. RF. AMP.
D501~D504 POWER RECT.
ANT.
FROM Ⓐ
AC220V 50Hz

Fig. 57

Packing

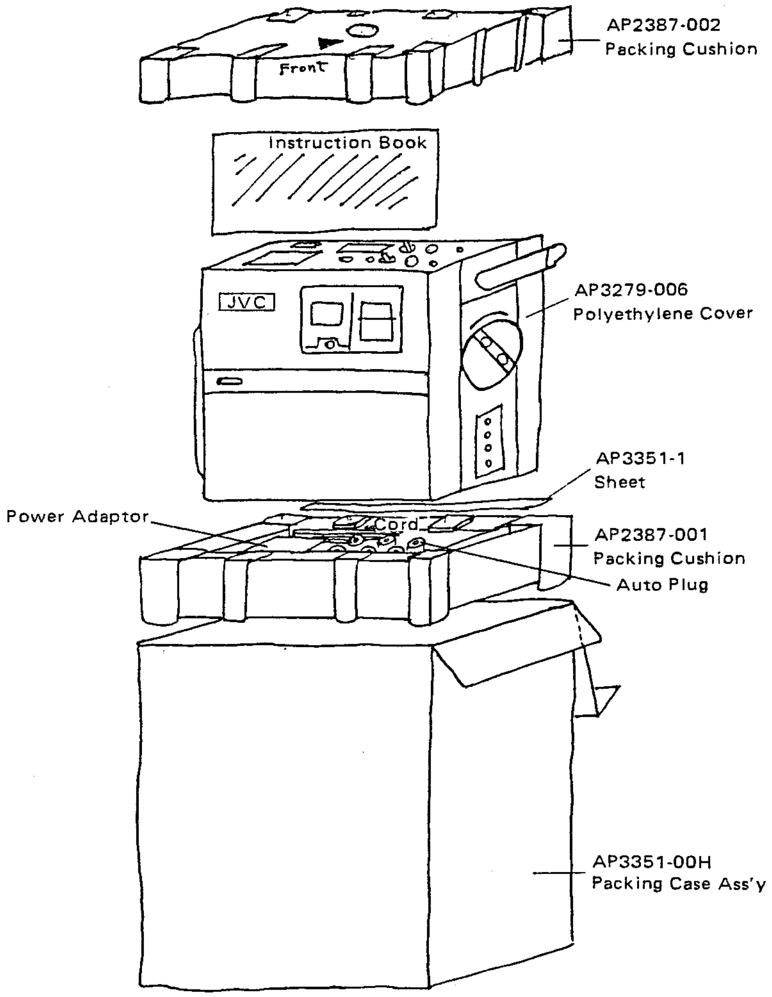

AP2387-002
Packing Cushion
Front
Instruction Book
JVC
AP3279-006
Polyethylene Cover
AP3351-1
Sheet
Power Adaptor
Cord
AP2387-001
Packing Cushion
Auto Plug
AP3351-00H
Packing Case Ass'y

Fig. 58

Accessories

	Q'ty
Power Adaptor (Model AA-23JEU)	1
AC Power Cord	1
Auto Plug (Model AP-23)	1
Earphone Ass'y	1
Instruction Book	1
Schematic Diagram	1

JVC Optional Accessories

Rechargeable Battery (Model BP-001)
Timer (Model RT-30E)
Sun-Screen Hood (Model TH-001)
Carrying Case (Model TCB-001)

Parts Arrangement on the Face of Printed Circuit Board for TV.

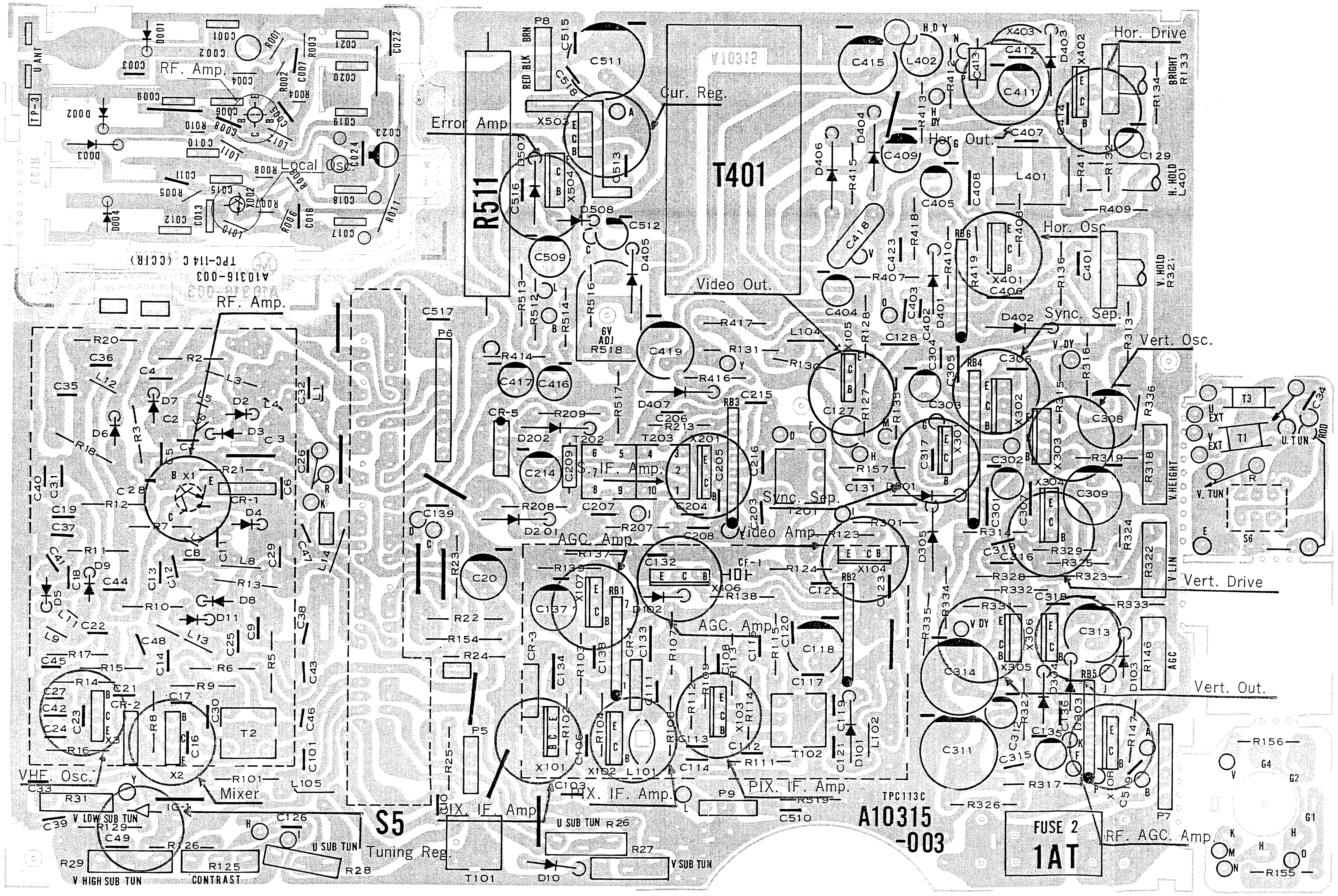

U ANT
TP-3
RF. Amp.
Local Osc.
TPC-114 C (CCIR)
A10316-003
Error Amp
R511
Cur. Reg.
T401
Video Out.
Hor. Drive
Hor. Out.
Hor. Osc.
BRIGHT R133
H. HOLD L401
V. HOLD R321
Sync. Sep.
Vert. Osc.
6V ADJ R518
S. IF. Amp.
AGC. Amp.
Video Amp.
Sync. Sep.
U EXT
V EXT
U. TUN
V. TUN
S6
V. HEIGHT
V LIN
Vert. Drive
Vert. Out.
AGC
RF. AGC. Amp.
FUSE 2 1AT
TPC113C
A10315 -003
PIX. IF. Amp.
S5
Tuning Reg.
U SUB TUN R26
V SUB TUN
U SUB TUN
VHF. Osc.
Mixer
V LOW SUB TUN
V HIGH SUB TUN
CONTRAST
T101
T102
T2
D10
R27
R28
R29
R125
R155
R156

Fig. 59

Parts Arrangement on the Reverse of Printed Circuit Board for TV.

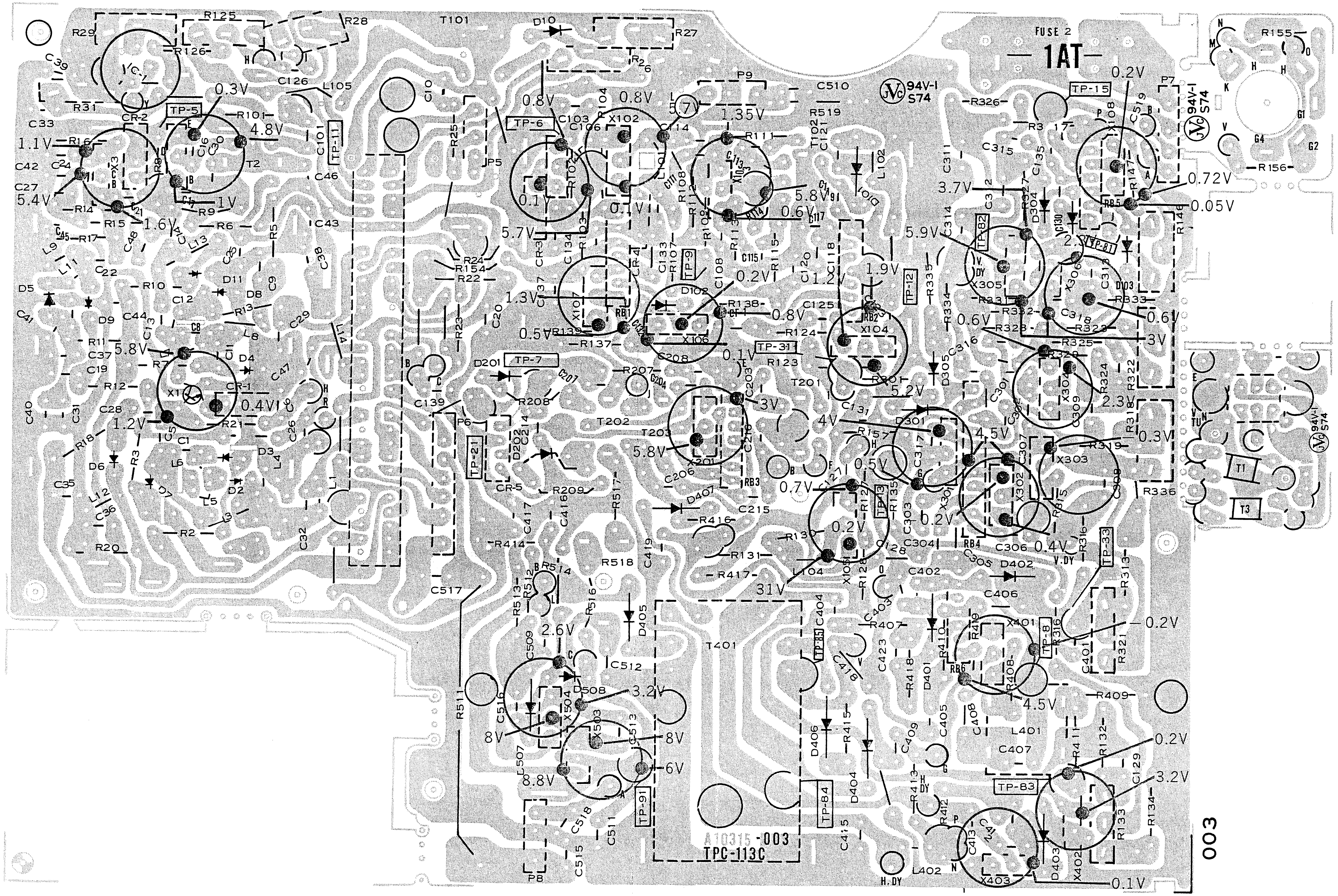
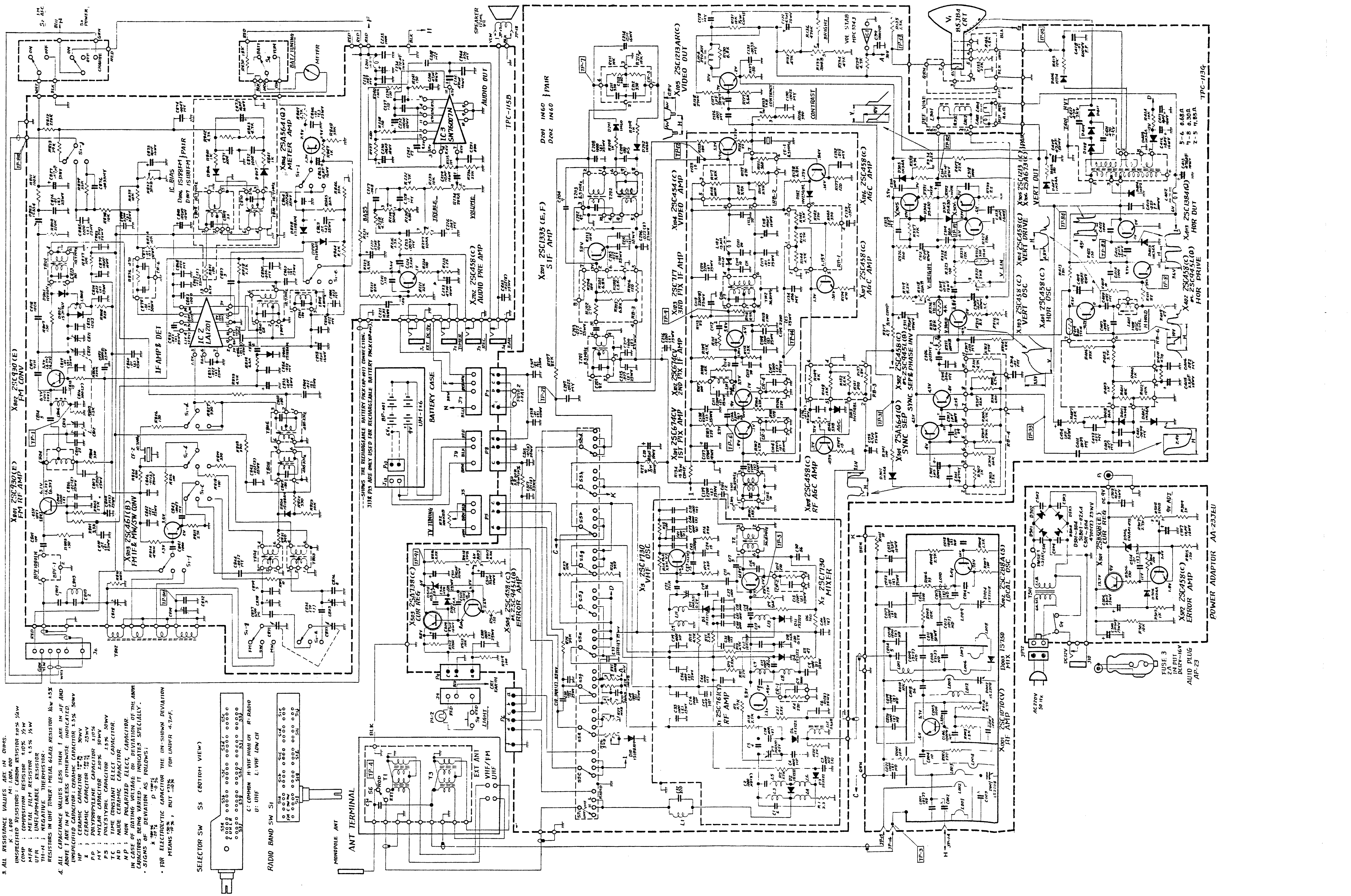

R29
R125
R28
T101
D10
R27
R126
R2
C39
C126
L105
P9
C510
94V-1
S74
FUSE 2
1AT
0.2V
P7
R155
R31
CR-2
0.3V
TP-5
R101
4.8V
C10
0.8V
TP-6
C103
C106
R104
0.8V
X102
1.35V
R519
T102
C121
R326
TP-15
C519
R108
C33
1.1V
R16
C16
C30
C101
TP-11
R25
P5
C114
R111
L102
R3
C315
C135
R147
0.72V
R156
G4
G2
C42
C24
X3
R8
T2
C46
R102
C113
X103
C311
3.7V
C2
R327
D304
0.05V
C27
5.4V
R14
C21
1.6V
C17
1V
R9
0.1V
0.1V
R108
R112
R109
R113
5.8V
0.6V
C117
D101
RB5
R146
R15
R17
C45
R6
R5
C43
C38
5.7V
C134
R103
CR-3
C133
R107
TP-9
C108
C115
R115
C120
C118
1.9V
5.9V
C314
TP-82
D130
TP-81
L9
L11
C22
C48
C14
L13
C35
R24
R154
R22
CR-4
0.2V
C1.2V
TP-12
R335
DY
X305
X306
C313
D303
R333
D5
R10
D11
C12
C9
D8
1.3V
C37
X107
RB1
D102
R138
CF1
0.8V
C125
RB2
R334
R331
R332
C318
0.6V
C41
D9
C44
C13
C8
R13
L8
C29
L14
R23
C20
0.5V
R139
R137
C205
X106
C208
R124
X104
0.6V
R328
R323
3V
R11
C37
5.8V
L7
C19
R7
D4
C47
L0
D201
TP-7
C207
R207
C204
0.1V
TP-31
R123
T201
R201
D305
C316
R325
R329
R322
R12
X1
CR-1
0.4V
B
C
C139
R208
C203
3V
5.2V
C131
C301
C302
X304
R324
C309
2.3V
C40
C31
C28
1.2V
R21
C26
P6
C214
T202
4V
D301
4.5V
R318
0.3V
R18
C5
C1
D3
L4
TP-21
D202
T203
5.8V
X201
C210
R157
C317
C307
X303
R319
D6
R3
L6
D2
L5
C206
0.5V
X301
X302
R315
C308
C35
L12
D7
C36
L1
CR-5
R209
R517
D407
RB3
0.7V
C127
R127
R135
TP-13
R336
T1
T3
R20
R2
L3
C32
C417
C416
R414
C215
R416
0.2V
R130
C303
0.2V
C128
C304
RB4
C306
0.4V
R316
TP-33
V.DY
B
R514
R518
C419
R131
R417
X105
R128
C305
D402
R313
C517
R513
R512
R516
D405
31V
L104
C404
C402
C403
C406
2.6V
C509
T401
TP-85
R407
C423
R419
R410
X401
TP-8
R316
0.2V
R321
C512
C418
R418
D401
RB6
R408
C401
R511
C516
D508
3.2V
4.5V
R409
X504
X503
C513
8V
D406
R415
C409
C405
C408
L401
C407
R411
R132
0.2V
8V
C129
3.2V
L507
6V
8.8V
D404
R413
H.DY
TP-83
TP-84
C518
A
TP-91
R412
P
C413
R133
R134
C511
C515
P8
A10315-003
TPC-113C
C415
H.DY
L402
N
X403
D403
X402
0.1V
003

Fig. 60

TV & Radio Schematic Diagram Model 3050EUO


X801 2SC930(E) FM RF AMP
X802 2SC930(E) FM CONV
X803 2SC461(B) FM IF & MW/SW CONV
IC2 LA1201 IF AMP & DET
X804 2SA564(Q) METER AMP
METER
IC3 SN76007N
AUDIO OUT
X702 2SC458(C) AUDIO PRE AMP
BASS
TREBLE
VOLUME
TPC-115B
SPEAKER
BATTERY CASE
TV TUNING
X503 2SA738(C) CUR REG
X504 2SC458(C) or 2SC945(Q) ERROR AMP
ANT TERMINAL
EXT ANT
VHF/FM
UHF
MONOPOLE ANT
SELECTOR SW S5 (BOTTOM VIEW)
C: COMMON H: VHF HIGH CH R: RADIO
U: UHF L: VHF LOW CH
RADIO BAND SW S1
X201 2SC1335(E,F) SIF AMP
X305 2SC1213AR(C) VIDEO OUT
X304 2SC454(C) VIDEO AMP
X303 2SC717 3RD PIX IF AMP
X302 2SC674CV 2ND PIX IF AMP
X301 2SC674CV 1ST PIX IF AMP
X306 2SC458(C) AGC AMP
X307 2SC458(C) AGC AMP
X308 2SC458(C) RF AGC AMP
X501 2SA564(Q) SYNC SEP
X502 2SC458(C) SYNC SEP & PHASE INV
X3 2SC1130 VHF OSC
X2 2SC1130 MIXER
X1 2SC761(Y) RF AMP
X002 2SC288A(S) LOCAL OSC
X001 2SC1070(V) RF AMP
CONTRAST
BRIGHT
V1 85JB4 CRT
X303 2SC458(C) VERT OSC
X304 2SC458(C) VERT DRIVE
X305 2SC1213(C) 2SA673(C) VERT OUT
X401 2SC458(C) HOR OSC
X402 2SC458(C) or 2SC945(Q) HOR DRIVE
X403 2SC1384(Q) HOR OUT
TPC-113G
X501 2SB508(E) CUR REG
X502 2SC458(C) ERROR AMP
POWER ADAPTOR AA-237EU
FUSE 3 2A
IN PUT DC12V~16V
AUTO PLUG AP-23
AC220V 50Hz

NOTE
1. ALL VOLTAGES SHOW READS BY CIRCUIT TESTER (20KΩ/V). TV VOLTAGES ARE AT UHF RECEPTION, ( ) ARE AT VHF
RADIO VOLTAGES ARE AT FM, ( ) ARE AT MW
( ) ARE AT SW.
2. ALIGNMENT ······ MANUAL
———— SERVICE
3. ALL RESISTANCE VALUES ARE IN OHMS.
K: 1,000 M: 1,000,000
UNSPECIFIED RESISTORS: CARBON RESISTOR ±10% 1/4W
COMP : COMPOSITION RESISTOR ±10% 1/2W
MFR : METAL FILM RESISTOR ±5% 1/2W
UFR : UNFLAMMABLE RESISTOR
TH-N : NEGATIVE THERMISTOR.
RESISTORS IN UHF TUNER: METAL GLAZE RESISTOR 1/16W ±5%
4. ALL CAPACITANCE VALUES LESS THAN 1 ARE IN μF AND ABOVE 1 ARE IN pF UNLESS OTHERWISE INDICATED.
UNSPECIFIED CAPACITOR: CERAMIC CAPACITOR ±5% 50WV
HP : CERAMIC CAPACITOR $^{+100\%}_{-0\%}$ 50WV
Z : CERAMIC CAPACITOR $^{+80\%}_{-20\%}$ 25WV
P.P : POLYPROPYLENE CAPACITOR ±10%
MY : MYLAR CAPACITOR ±10% 50WV
PS : POLYSTYROL CAPACITOR ±5% 50WV
TC : TIME CONSTANT ELECT CAPACITOR.
ND : NUDE CERAMIC CAPACITOR.
NP : NON POLARIZED ELECT, CAPACITOR.
IN CASE OF RATING VOLTAGE OR DEVIATION OF THE ABOVE CAPACITORS BEING VARIED, IT INDICATES SPECIALLY.
- SIGNS OF DEVIATION AS FOLLOWS;
Z $^{+80\%}_{-20\%}$ P $^{+100\%}_{-0\%}$
- FOR ELECTROLYTIC CAPACITOR THE UN-SHOWN DEVIATION MEANS $^{+50\%}_{-10\%}$, BUT $^{+75\%}_{-10\%}$ FOR UNDER 4.7μF.

* This is fundamental circuit diagram and it may be altered due to some improvement.

Parts Arrangement on the Face of Printed Circuit Board for Radio

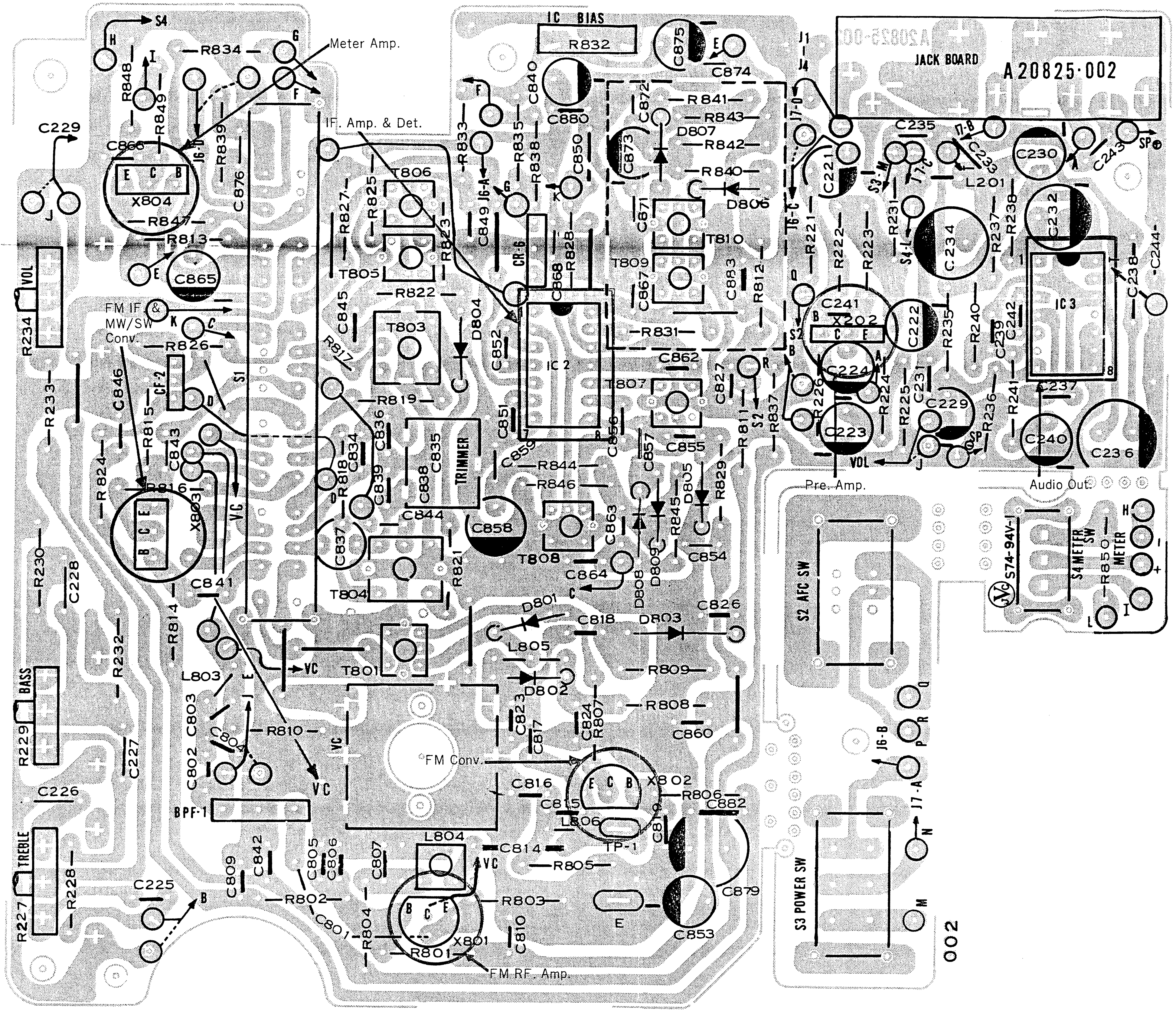

Meter Amp.
IF. Amp. & Det.
IC BIAS
R832
JACK BOARD
A20825·002
FM IF. & MW/SW Conv.
VOL
BASS
TREBLE
X804
X803
X802
X801
X202
IC 2
IC 3
TRIMMER
FM Conv.
FM RF. Amp.
Pre. Amp.
Audio Out.
S2 AFC SW
S3 POWER SW
S4 METER SW
METER
S74-94V-1
T801
T803
T804
T805
T806
T807
T808
T809
T810
L201
L803
L804
L805
L806
BPF-1
CF-2
CR-6
TP-1
D801
D802
D803
D804
D805
D806
D807
D808
D809
VC
002

Fig. 61

Parts Arrangement on the Reverse of Printed Circuit Board for Radio

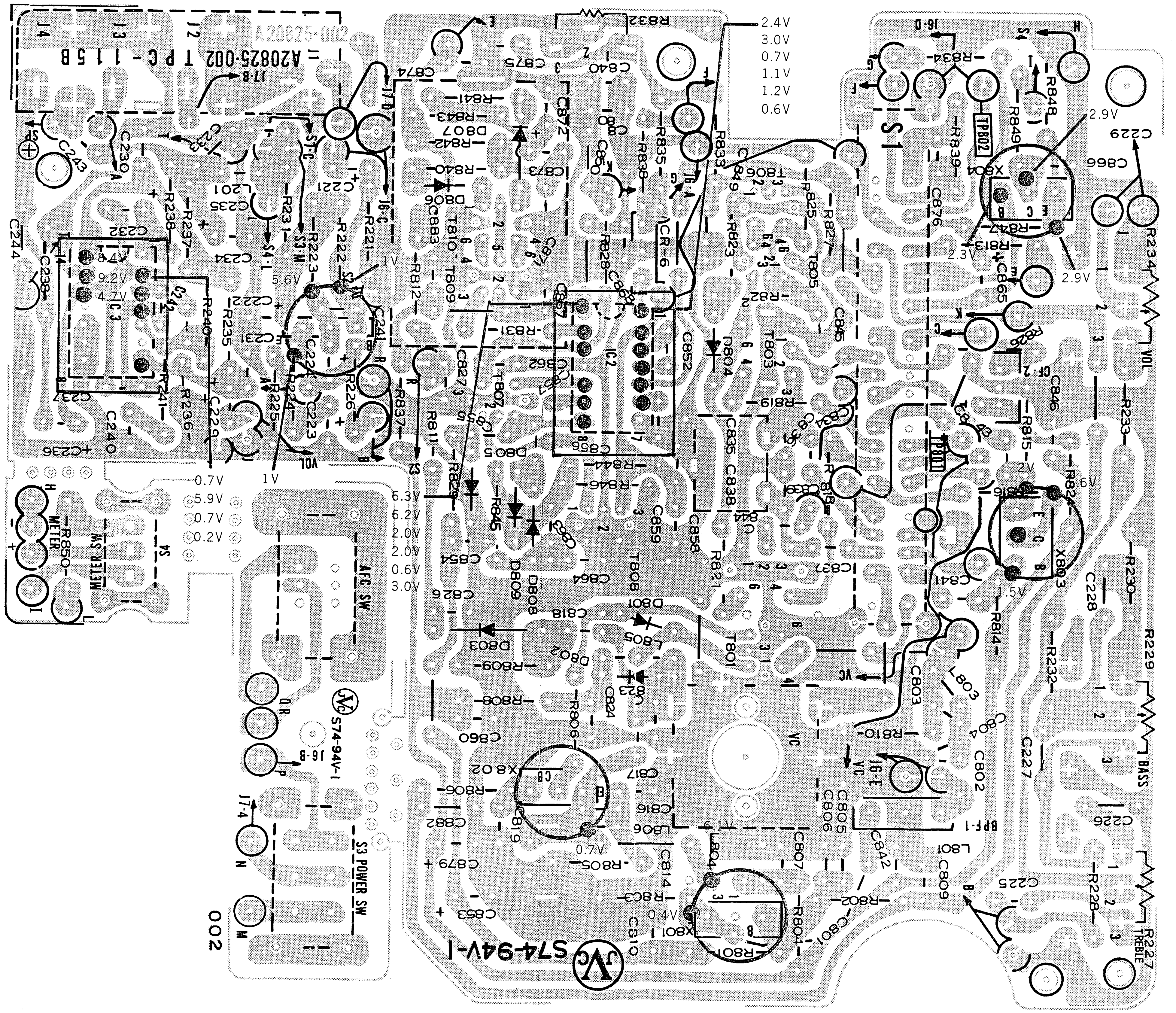
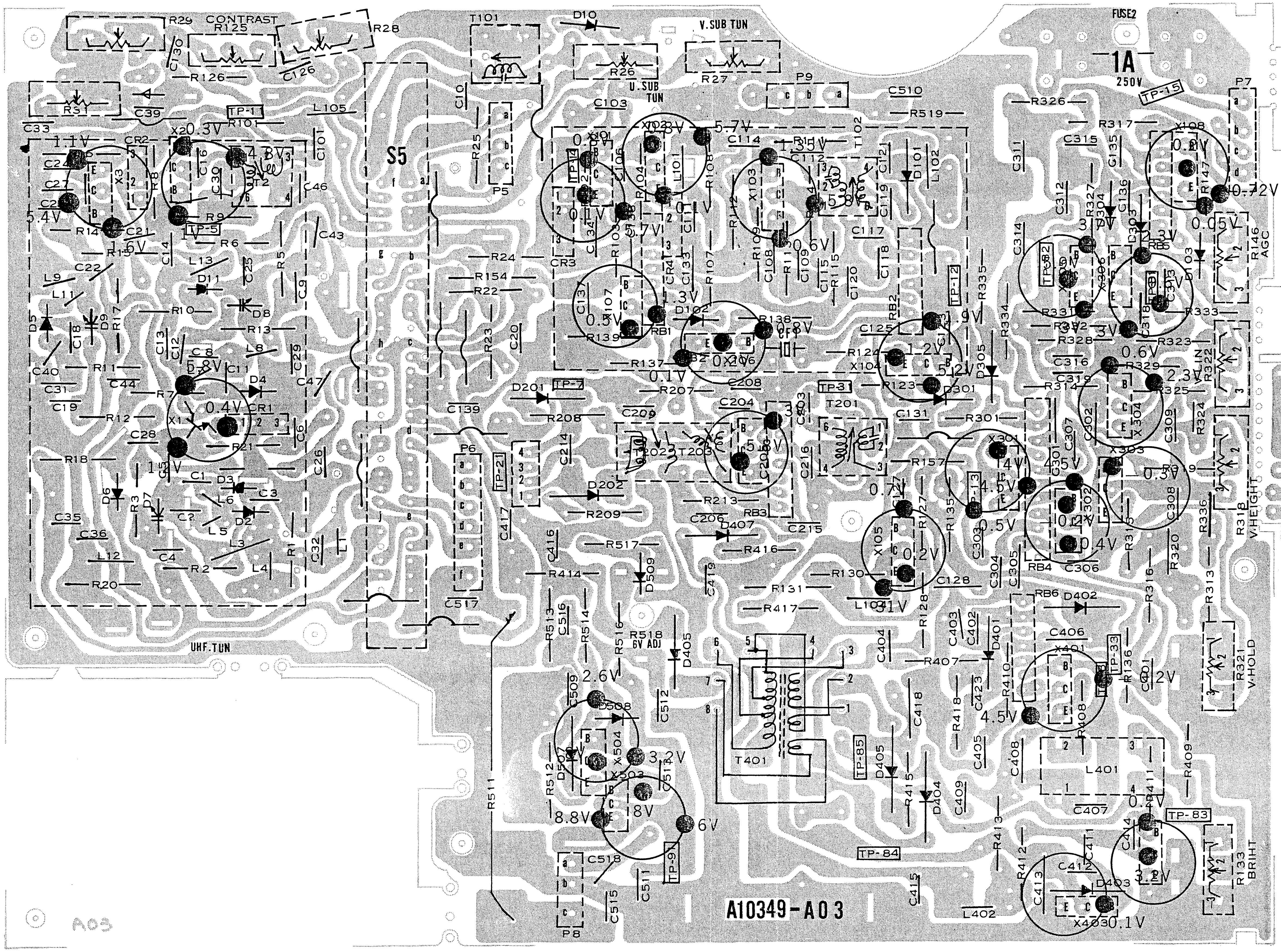

A20825-002
TPC-115B
2.4V
3.0V
0.7V
1.1V
1.2V
0.6V
2.9V
2.9V
2.3V
5.6V
1V
9.4V
9.2V
4.7V
0.7V
5.9V
0.7V
0.2V
1V
6.3V
6.2V
2.0V
2.0V
0.6V
3.0V
2V
6V
1.5V
6.1V
0.7V
0.4V
S74-94V-1
VOL
BASS
TREBLE
METER SW
AFC SW
S3 POWER SW
IC2
IC3
X801
X802
X803
X804
VC

Fig. 62

Parts Arrangement on the Reverse of Printed Circuit Board for TV.


CONTRAST
R125
V.SUB TUN
U.SUB TUN
R26
R27
UHF.TUN
FUSE2
1A
250V
TP-15
S5
S6
P5
P6
P7
P8
P9
T101
T102
T201
T202
T203
T401
L401
TP-5
TP-7
TP-11
TP-12
TP-13
TP-14
TP-21
TP-31
TP-33
TP-62
TP-83
TP-84
TP-85
TP-9
R146
AGC
R322
V.LIN
R318
V.HEIGHT
R321
V.HOLD
R133
BRIHT
R518
6V ADJ
A10349-A03

3050EU
3050UK
3050HU
3050EUO

A03

JVC

Supplementary
SERVICE MANUAL
for
MODEL 3050EUO

Model 3050EUO has been changed the printed circuit board for TV.
This alteration is of parts arrangement on the board to perform more easy manufacturing in plant, not due to of circuit and components and also is interchangeable between each assembled board.
Please file this together with the service manual for model 3050EUO (No. 3224) issued previously and refer to the parts arrangement diagram attached in repairing of the set.

Note: Affected serial No. 1251 up

No. 3224-2

JVC

VICTOR COMPANY OF JAPAN, LIMITED
B/W TELEVISION DIVISION

Printed in Japan
— 5201 — 0 —

Electronic Parts List for TV.

Transistors

Symbol No.	Parts No.	Description
X1	2SC761(Y)	VHF RF. Amp.
X2	2SC1730	Mixer
X3	2SC1730	Oscillator
X101	2SC674CV	1st. Pix. IF. Amp.
X102	2SC674CV	2nd. Pix. IF. Amp.
X103	2SC717	3rd. Pix. IF. Amp.
X104	2SC454(C)	Video Amp.
X105	2SC1213AR(C)	Video Output
X106	2SC458(C)	AGC. Amp.
X107	2SC458(C)	AGC. Amp.
X108	2SC458(C)	RF. AGC. Amp.
X201	2SC1335(E,F)	S. IF. Amp.
X301	2SA564(Q)	Sync. Sep.
X302	2SC458(C)	Sync. Sep. [or 2SC945L(Q)]
X303	2SC458(C)	Vert. Osc.
X304	2SC458(C)	Vert. Drive
X305	2SC1213(C) } Pair	Vert. Output
X306	2SA673(C)	Vert. Output
X401	2SC458(C)	Hor. Oscillator
X402	2SC458(C)	Hor. Drive [or 2SC945L(Q)]
X403	2SC1384(Q)	Hor. Output
X503	2SA738(C)	Cur. Reg.
X504	2SC458(C)	Error Amp. [or 2SC945L(Q)]
X001	2SC1070(V)	UHF RF. Amp.
X002	2SC288A(5)	Oscillator

IC

Symbol No.	Parts No.	Description
IC1	µpc574J	Tuning Reg.

Diodes

Symbol No.	Parts No.	Description
D2,3,4,5,6,11	1S2222	Band Switch Diode
D7,8,9	MA320G2V	Variable Capacitance Diode
D10	1S188AM	Diode
D101	1N60TF1	Diode
D102,103	HV32GBLV	Diode
D201,202	1N60TF1	Diode (Pair)
D301,305,401,402,403,405,407,507	1N34ATF1	Diode
D303,304	DS430	Diode
D404	A04331-023	Silicon Power Diode (10D2)
D406	BB-6	Silicon Power Diode
D508	RD3.6EB	Zener Diode
D001,002,004	1S2208	Variable Capacitance Diode
D003	1S750	Diode

CRT

Symbol No.	Parts No.	Description
V1	85JB4	Picture Tube

Coils & Transformers

Symbol No.	Parts No.	Description
L1	A44900-13-1	RF. Coil
L3	A44900-45-2	RF. Coil
L4	A44900-45-2	RF. Coil
L5	A44899-5-5	RF. Coil
L6	A44899-3-1	RF. Coil
L7	A44900-5-1	RF. Coil
L8	A44900-45-2	RF. Coil
L9	A44900-25-1	RF. Coil
L11	A44899-5-5	RF. Coil
L12	A04725-5.6	Peaking Coil
L13	A44900-49-1	RF. Coil
L101	A45412-00B	2nd. Pix. IF. Coil
L102	A04725-15	Peaking Coil
L104	A04725-390	Peaking Coil
L105	A44899-15-1	RF. Coil
L301,403	A31867-00A	Def. Yoke Ass'y
L401	A44897-00C	Hor. Osc. Coil Ass'y
L402	A45384-101	Choke Coil
T1	A45427-00A	Matching Trans. Ass'y
T2	A45379-00C	Converter Trans. Ass'y
T3	A45427-00A	Matching Trans. Ass'y
T101	A45380-00B	1st. Pix. IF. Trans. Ass'y
T102	A45381-00C	3rd. Pix. IF. Trans. Ass'y
T201	A45382-00D	Sound IF. Trans. Ass'y
T202,203	A31101-00C	Ratio Trans. Ass'y
T401 (D408, 409,411)	A31866-00A	HV. Trans. Ass'y
L010,011,012	A44899-23-5	RF. Coil

Variable Resistors

Symbol No.	Parts No.	Description	
R26	QVP2A0B-053	Sub-Volume	5kΩB
R27	QVP2A0B-014	Sub-Volume	10kΩB
R28	QVP2A0B-015	Sub-Volume	100kΩB
R29	QVP2A0B-015	Sub-Volume	100kΩB
R31	QVP2A0B-015	Sub-Volume	100kΩB
R32	QVA9A6B-015	Tuning	100kΩB
R125	QVG0A3B-013	Contrast	1kΩB
R133	QVF8A2B-025	Brightness	200kΩB
R146	QVP2A0B-053	AGC.	2kΩB
R318	QVP2A0B-024	Height	20kΩB
R321	QVF8A2B-015	V.Hold	100kΩB
R322	QVP2A0B-053	V.Lin.	5kΩB
R518	QVP5A0B-023	6V. Adjust	2kΩB

Resistors (Power & Special)

Symbol No.	Parts No.	Description
R324	A04292-104	Negative Thermistor
R336	A04361-002	Negative Thermistor
R419	A04292-107	Negative Thermistor
R331,332	QRX126J-1R0	Metal Film Resistor
R511	QRZ0038-5R8	Unflammable Resistor
R001,005,010	QRS165J-103	Metal Glaze Resistor
R002	QRS165J-221	Metal Glaze Resistor
R003	QRS165J-152	Metal Glaze Resistor
R004	QRS165J-472	Metal Glaze Resistor
R006	QRS165J-330	Metal Glaze Resistor
R007	QRS165J-101	Metal Glaze Resistor
R008	QRS165J-122	Metal Glaze Resistor
R009	QRS165J-272	Metal Glaze Resistor

Electrolytic Capacitors

Symbol No.	Parts No.	Description	
C20,118,409	QEW61AA-107	100µF	10WV
C127	QEN41HA-105	1µF	50WV
C129,135	QEW61EA-475	4.7µF	25WV
C137,511	QEW61AA-227	220µF	10WV
C214,309,312,313,416,417	QEW61CA-106	10µF	16WV
C302,303,404	QEW61HA-105	1µF	50WV
C308	A04338-106	10µF	50WV
C311,314	QEW61AA-477	470µF	10WV
C512	QEW61AA-336	33µF	10WV
C405	QEW61EA-335	3.3µF	25WV
C411	QEW61CA-106	10µF	16WV
C415	QEW61AA-477	470µF	16WV
C419	QEW61HA-476	47µF	50WV
C509	QEW61CA-476	47µF	16WV
C023	QEW61AA-476	47µF	10WV

Symbol No.	Parts No.	Description
Capacitors		
C209	QFS21HJ-181	Polystyrol Capacitor
C413	QFP32DK-223	Polypropylene Capacitor
C418	QFP32XK-103	Polypropylene Capacitor
C002	QAT3001-012	Trimmer Capacitor Ass'y
C003	A45246-001	Plate
C.R. Blocks		
CR1	A03008-016	C7, R4
CR2	A03008-013	C15, R19
CR3	A03008-013	C104, R105
CR4	A03008-013	C107, R106
CR5	A03008-018	C211,212,213, R211,212
R. Blocks		
RB1	A03071-001	R141~145
RB2	A03071-002	R116~119,121,122
RB3	A03071-003	R201~206
RB4	A03071-004	R302~309,311,312
RB5	A03071-005	R148,149,151~153
RB6	A03071-006	R401~406
Speaker		
	SK2092-YM	8Ω 12cm

Symbol No.	Parts No.	Description
Sockets & Plugs (Connector)		
J5,8,9	QMC0357-001	Socket Ass'y
J13	QMC0233-101	Socket Ass'y
	A44397-00B	CRT Socket Ass'y
P5,8,9	QMC0327-001	Plug Ass'y
P6	QMC0627-001	Plug Ass'y
P7	QMC0427-001	Plug Ass'y
Switch		
S5	QSR60A4-302	Rotary Switch
S6	QSS2201-031	Slide Switch
S8	A45374-001	Lamp Lever
Miscellaneous		
PL2	QLP3104-212	Pilot Lamp (RA)
	AP3351-00H	Packing Case Ass'y
	QME1308-004	Earphone
	AN1192-001E	Instruction Book
	AN1110-001S	Schematic Diagram
CF-1	A04362-001	Ceramic Filter
Fuse 2	QMF51A2-1R0	250V, 1A
P12	QMP3950-183	Power Cord with Plug

Electronic Parts List for Radio

Symbol No.	Parts No.	Description
Transistors		
X202	2SC458(C)	Tone Control Amp.
X801	2SC930(E)	FM RF. Amp.
X802	2SC930(E)	FM Conv.
X803	2SC461(B)	FM IF. & MW,SW Conv.
X804	2SA564(Q)	Meter Amp.
ICs		
IC2	LA1201	FM IF. Amp. MW Det.
IC3	SN76007N	Audio Output
Diodes		
D801	HV80V	Diode
D802	1S2076V	Diode
D803	1S554	Diode
D804,805,808, 809	1S188AM	Diode
D806,807	1S188FM	Diode (pair)
Coils & Transformers		
L201	A04359-100	Choke Coil

Symbol No.	Parts No.	Description
L803	V03047-11	Ant. Coil (SW)
L804	A45485-00A	RF. Coil (FM)
L805	A45489-001	Osc. Coil (FM)
L806	03226-1	IF. Trap Coil
T801	V03068-7	IFT. (FM)
T802	A31887-00A	Bar Ant. Ass'y
T803	46923-47	Osc. Trans. (MW)
T804	V03101-4	Osc. Trans. Ass'y (SW)
T805	V03067-16	IFT. (MW,SW)
T806	V03067-6	IFT. (MW,SW)
T807	V03068-23	IFT. (FM)
T808	V03067-7	IFT. (MW,SW)
T809	V03068-24	IFT. (FM)
T810	V03068-11	IFT. (FM)
Variable Resistors		
R227	QVG0A7A-054	Treble 50kΩA
R229	QVG0A7A-054	Bass 50kΩA
R234	QVG0A7A-024	Volume 20kΩA
R832	QVP2A0B-054	IC Bias 50kΩB

Symbol No.	Parts No.	Description
Electrolytic Capacitors		
C221,229,853, 858,865,866, 873,875	QEW41CA-106	10μF 16WV
C222,223,240	QEW41AA-476	47μF 10WV
C224	QEW41EA-335	3.3μF 25WV
C230,232,840, 879	QEW41AA-107	100μF 10WV
C234	QEW41AA-477	470μF 10WV
C236	QEW41CA-477	470μF 16WV
Capacitors		
C812,813,821, 822,828,829, 832,833	QAP1224-502	Variable Capacitor
C835,838	QAT2002-001	Trimmer Capacitor
C834.837	QFS41HJ-322	Polystyrol Capacitor

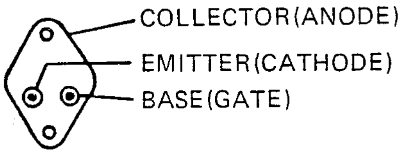
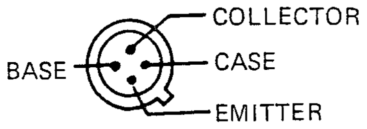
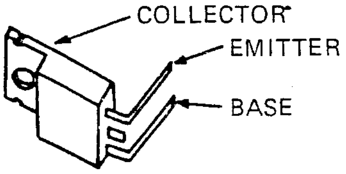
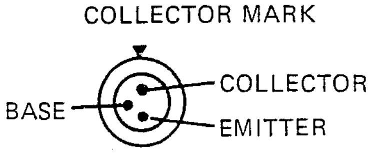
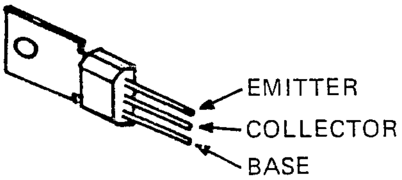
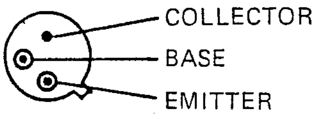
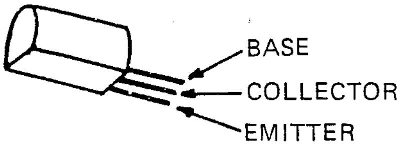
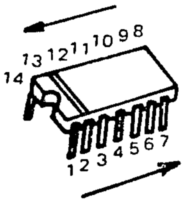
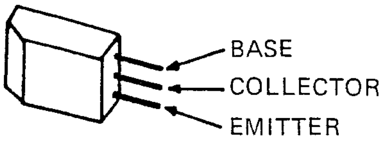
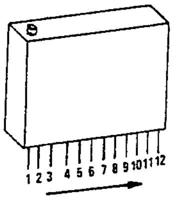
Symbol No.	Parts No.	Description
C.R. Block		
CR-6	03126-15	R830, C864,865
Filters		
BPF-1	A45437-00A	Band Pass Filter
CF-2	V03059-3	Ceramic Filter
Switch		
S1	QSR57A3-500	Rotary Switch
S2	QSL2218-112	Lever Switch (AFC)
S3	QSL2318-002	Lever Switch (Power)
S4	QSS1201-011	Slide Switch (Batt./Tun)
Sockets & Jacks		
J1~4	A45408-00A	Jack Board Ass'y
J6	QMC0657-001	Socket Ass'y
J7	QMC0457-001	Socket Ass'y

Electronic Parts List for Power Adaptor

Symbol No.	Parts No.	Description
Transistors		
X501	2SB508(E)	Cur. Reg.
X502	2SC458(C)	Error Amp.
Diodes		
D501~504	A04350-022	Silicon Power Diode
D505	1N34ATF1	Diode
D506	A04344-007	Zener Diode
Transformer		
T501	A45417-00C	Power Trans. Ass'y
Electrolytic Capacitors		
C505	QEW61EA-228	2200μF 25WV
C506	QEW61EA-336	33μF 25WV
C507,508	QEW61CA-106	10μF 16WV

Symbol No.	Parts No.	Description
C.R. Blocks		
C501,504	A03008-006	
C502,503	A03008-006	
Variable Resistor		
R508	QVP5A0B-052	500ΩB
Jack & Socket		
J10	QMA1221-001	Ext. Batt. Jack Ass'y
J12, S9	QMC0263-001	AC Socket Ass'y
Miscellaneous		
Fuse 1	QMF51A2-1R25	250V 1.25A
P1	QMA0911-102	Plug & Lead Ass'y

Basing of Transistor

VIEW	VIEW
 COLLECTOR(ANODE) EMITTER(CATHODE) BASE(GATE)	 COLLECTOR BASE CASE EMITTER
 COLLECTOR EMITTER BASE	 COLLECTOR MARK COLLECTOR BASE EMITTER
 EMITTER COLLECTOR BASE	 COLLECTOR BASE EMITTER
 BASE COLLECTOR EMITTER	 13 12 11 10 9 8 14 1 2 3 4 5 6 7 IC
 BASE COLLECTOR EMITTER	 1 2 3 4 5 6 7 8 9 10 11 12 IC

Requirement to Customers

To ensure prompt supply of service parts, list part number, part name, and model number when you order.